

SEQUENCE LISTING

<110> Reed, Steven G. Henderson, Robert A.
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<120> COMPOSITIONS AND METHODS FOR
 THE THERAPY AND DIAGNOSIS OF LUNG CANCER

<130> 210121.475C7

<140> US

<141> 2000-09-20

<160> 440

<170> FastSEQ for Windows Version 3.0

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<212> DNA

<213> Homo sapien

<400> 1

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<211> 698

<212> DNA

<213> Homo sapien

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<221> misc_feature

<222> (1)...(698)

<223> n = A,T,C or G

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tttcgaggaa	atggttgagg	actggctcct	tcaaaggcac	tttttggtta	tgttttgttt	420
yaatcatgtk	gacgctccaa	tcttggragg	gaatcgaang	rantcncnc	caaaacatrc	480
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<212> DNA
<213> Homo sapien
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<223> n = A,T,C or G
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<210> 4
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<212> DNA
<213> Homo sapien
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<223> n = A,T,C or G
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<212> DNA
<213> Homo sapien

<220>
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<223> n = A,T,C or G

<400> 5

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cagagggttc	tgacagatgt	gctattttaa	agcagctggg	tgcaacttgt	gaaaacggga	180
atctngaagc	agaacatgtn	atcagcgatg	gctgggattg	gtggacagga	ttgacaggag	240
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atcgtaacta	ctagtgaactt	ctgagggttta	cagttngaag	atgttctcnn	aggtttatca	420
agttntgtta	ttgatgatng	gtaatctaca	cctctggaag	ctgtngaag	tgaaaaagat	480
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<210> 6
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<213> Homo sapien

<220>
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<222> (1)...(369)
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<400> 6

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aattcattaa	ctttgtggtt	gaagggagca	gcgtcngaaa	ctgctttagc	acagtgggag	180
gaaaacaaac	agattcatct	ccggaaacca	aaggaaagg	tragtgggtt	tttattagcc	240
agctgtatcc	tagatgggtc	atttccagt	gatgaataca	ccttacgtac	gtttctcttg	300
cttcctacct	nggcctgac	agctnngcac	ttraatcatt	ccgtnggggt	wgctgtnaca	360
ctggactga						369

<210> 7
<211> 264
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 7

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<211> 280
<212> DNA
<213> Homo sapien
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<400> 8

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<210> 9
<211> 449
<212> DNA
<213> Homo sapien
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<400> 9

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<210> 10
<211> 538
<212> DNA
<213> Homo sapien
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<400> 10

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tttttttttt ttcccaagg cctcaraaca ctagtcttct aattccaagc agaaagttac      60
atccgcgggg atacatgcca cttggtttga taaatcaaaa tacagcatcc ttcatatccc      120

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<210> 11
<211> 543
<212> DNA
<213> Homo sapien
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<400> 11

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<210> 12
<211> 329
<212> DNA
<213> Homo sapien
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<400> 12

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<210> 13
<211> 314
<212> DNA
<213> Homo sapien
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<400> 13

cgatgacttg	cacccgggag	ctgtgacagt	ggcctggaag	cagatggcag	ccccgtcaag	60
gcgggagtgg	agaccaccaa	accctccaaa	cagagcaaca	actagtacgc	ggccagcagc	120
tacctgagcc	tgacgcccga	gcagtgggaag	tcccacagaa	gctacagctg	ccagggtcacg	180
catgaaggga	gcaccgtgga	gaagacagtg	gcccctacag	aatgttcata	ggttcccnac	240
tctnacccca	cccacgggag	cctgganctg	cangatcccc	ggggaagggt	ctctctcccc	300
atcccaagtc	atcg					314

<210> 14
 <211> 691
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(691)
 <223> n = A,T,C or G

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gaagagaaga	ataaagtcta	ttttggtctt	tggtagcchg	ggtaangaga	atgctstcac	180
tctacnagaa	aaccnaagt	gaaccoggct	aatcaggacc	gtgcttggga	agggagcagg	240
ggcattacct	ttcaacacca	gaggttcttt	gccttctctc	tgcaaggact	cgargactat	300
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ctaggacagt	gatcttgccc	ctgcttgcas	tctccgcgg	ctgatcttat	csqscaccagt	480
tkatgtgsam	cgctccttgg	atrtkactct	tgttttwctc	cvaggaagg	gcytgcmagt	540
ccnwtnaatg	amssgggccc	ttaactccgg	serggtname	ncttgsctsc	rattttgggt	600
ycytcttcty	ttgscmagg	tcktcnaaac	cacttngttr	aattccccgg	scgcctkgc	660
nggtycaacc	wttttgggaa	mamecycccc	c			691

<210> 15
 <211> 355
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

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tcyaccctcg	gctcttacct	ttgacnaagt	ctcccggtga	gagtactacc	gaaccaccag	180
cagttcgagc	ctctnaagag	cgtctaaagc	atggggatat	atatttactg	gagaatgggc	240
tcaacctctt	cctctgggtg	ggagcaagcg	tccagcagg	tggtgtccag	agccttttca	300
gcgtctctct	cttcagtcag	atcaccagt	gtntgagtgt	tctgccagtt	caggt	355

<210> 16
 <211> 522
 <212> DNA
 <213> Homo sapien

000260 0479950

<220>
 <221> misc_feature
 <222> (1)...(522)
 <223> n = A,T,C or G

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 tttcttgaac aaaagtcttg aagatgatgc ggccctcagag agcttcctcc cctcggaagg 180
 tgcgtcctct gaccccgctg cctnccgctc aangatgctg gctgccgccg cggaacggan 240
 gcttcagaag cagcagacct cctnccgctc ccttgccctc ctccagctgc tctgctgccc 300
 tgtgcccggc tgactggagg aggcctgtcc aattctgccc gcccctatga aaagcgggct 360
 tgactgcatt gccgctgtat naaagcatgt ggtcttacag tgttnggacn gctnatnaat 420
 ttatcctnc tntgtaatac ttcttatgtg acatttctct tccccttgga aacactgcan 480
 attttaactg tgagtttgat ctcttctnct gttactggac tg 522

<210> 17
 <211> 317
 <212> DNA
 <213> Homo sapien

<400> 17
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 aaggataagc accagagaaa gaaggttcag ccggccgctc tgaaatatta taaggtggat 120
 gagaatggca aaattagttg ccttcgtcga gagtgcacct ctgatgaatg tgggtgctggg 180
 gtgtttatgg caagtcactt tgacagacat tattgtggca aatgttgtct gaccactgt 240
 ttcaactaac cagaagacaa gtaactgtat gaggtaatta aagacatgaa ctaaaaaaaa 300
 aaaaaaaaaa actcgag 317

<210> 18
 <211> 392
 <212> DNA
 <213> Homo sapien

<400> 18
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 aggaacatgt taaaaatcct tacaaggca aaaaactcaa gaaacaccca gacttccca 120
 agaagccctt gaccccttat ttccgcttct tcatggagaa gcgggccaag tatgcgaac 180
 tccacctca gatgagcaac ctggacctga ccaagattct gtccaagaaa tacaaggagc 240
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 gagcgaaacc tggcccgatt cagggaggat cccccccacc ttatccagaa tgccaagaat 360
 cggacatccc agagaagccc caagaccccc cg 392

<210> 19
 <211> 2624
 <212> DNA
 <213> Homo sapien

<400> 19
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 acattcgcat aaaccctcag tcttggttg ataacgggag catctgcatg aggatggaga 120
 tcttgggctg cccactgccg gatcctaata actattatca ccgacgtaat gagatgacca 180
 ccacggatga cctggatttt aagcaccaca actattagga aatgcgccag ttgatgaagg 240
 ttgtcaatga aatgtgcccc aatattacca ggatttaca cattggcaaa agccaccagg 300

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<210> 20
<211> 488
<212> DNA
<213> Homo sapien
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<400> 20						
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gctggacagc	tggaggatga	acggagaagc	cgactgcccc	acagacctgg	aaatggccgc	180
ccccagaggc	caagaccgtt	ggtcccagga	agacatgctg	actttgctgg	aatgcatgaa	240
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ggaaaaagtt	gcattgaaag	acttttctgg	agacatgtgc	aagctcaaat	gggtcgagat	360
ctctaagtga	gtgaggaagt	tccgtacatt	gacagaattg	atcctcgata	ctcaggaaca	420
tgtttaaaat	ccttacaaag	qcaaaaaatc	aaqaaacacc	ccgacttccc	cgagaaagcc	480

cctaaccc

488

<210> 21
 <211> 391
 <212> DNA
 <213> Homo sapien

<400> 21
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 cccgaccatc gaatcttgcg aacaacacga tacttggtca gtggctaccc caaacgac 180
 tgcttggtca cccaatgacc cgtgccttta tcacccatgc tagttcccat ggtgttaatg 240
 aaagcatatg caatggcgtt cccatggtga tgataccctt atttggatg cagatggaca 300
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 ctgaagatct agaagatgct ctgaagagca g 391

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 <211> 1320
 <212> DNA
 <213> Homo sapien

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 gtaacctttc ctttcccgga cttgagcaac ctacacactc acatgtttta tggtagatat 1260
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<210> 23
 <211> 633
 <212> DNA
 <213> Homo sapien

<400> 23
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 tgatgggggt taagccggg gaggaacat cggggcctgc tgaagacctt gtgagaagat 120
 ctgagaaaga tactgcagct gttgtctcca gacagggacg ctccctgaac ctctttgaag 180

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taagcaagaa	ggagttccag	gtccgcgagc	tggaagacta	cattgacaac	ctgctcgtca	540
gggtcatgga	agaaaccccc	aatatcctcc	gcaccccgac	tcaggttggc	aaaaaagcag	600
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<210> 24

<211> 1328

<212> DNA

<213> Homo sapien

<400> 24

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gaaagaagta	atccttttta	tgacagaaca	tgtaataatg	aagtggtaaa	aatgcagagg	180
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gagcccatte	ttttcatcat	tcggaagcaa	cagcggcagt	cccctgcccc	agttatccca	300
ctagctgatt	actatatcat	tgctggagtg	atctatcagg	caccagactt	gggatcagtt	360
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caagataaag	tcagacctaa	agccaaaagg	aaagaagaac	caagctctat	ttttcagaga	540
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gaatgcgctt	atttttttga	aaggatatta	ggcgggatgt	ggtggctcac	gcctgtaate	900
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ttgtgatatg	tcttctgtaa	cctttcctct	cccggacttg	agcaacctac	acactcacat	1260
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aaactcga						1328

<210> 25

<211> 1758

<212> DNA

<213> Homo sapien

<400> 25

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tgggtcagga	tggctgggtg	ccttctcccc	tggcatgggt	ctcttctctg	cagggcgagg	180
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atatccgaga	caatctgctg	ggaattttct	gggttgacag	ctcttggtac	cctatttttg	480
acagtggtag	tgtcctggat	tactttttcag	aaagaagtaa	tcctttttat	gacagaacat	540

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 gaatcgagta catccttttg catgctcaag agccattct tttcatcatt cggaagcaac 660
 agcggcagtc ccctgcccaa gttatccac tagctgatta ctatatcatt gctggagtga 720
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 aatatggtga aacccgctct ctactaaaaa tacaaaaatt agccggggcgt ggtggcgggc 1440
 gcccatagtc ccagctactc gggaggctga gacaggagac ttgcttgaac ccgggaggtg 1500
 gaggttgccc tgagctgatt atcatgctgt tgcactccag cttgggagac agagcgagac 1560
 tttgtctcaa aaaagaagaa aagatattat tcccatcatg atttcttggtg aatatttggt 1620
 atatgtcttc tgttaccttt cctctccggg aattgagcaa cctacacact cacatgttta 1680
 ctggtagata tgtttaaaag caaataaagg tattggtata tattgcttca aaaaaaaaaa 1740
 aaaaaaaaaa aactcgag 1758

<210> 26
 <211> 493
 <212> DNA
 <213> Homo sapien

<400> 26
 gaggcgagcg gcagggcctg gtggcgagag cgcggctgtc actgcgcccg agcatcccag 60
 agctttccga gcggacgagc cggccgtgcc gggcatcccc agcctcgcta ccctcgagc 120
 acacgtcgag cccgcacag gcaagggtcc ggaacttagc ccaaagcacg tttcccctgg 180
 cagcgcagga gacgcccggc cgcgcgcccg cgcacgcccc cctctcctcc tttgttccgg 240
 gggtcggcgg ccgctctcct gccagcgtcg ggatctcggc ccggggaggc gggccgtcgg 300
 gcgcagccgc gaagattccg ttggaactga cgcagagccg agtcagaag atctgggtgc 360
 ccgtggacca caggccctcg ttgccagat cctgtggggc aaagctgacc aactcccccg 420
 ccgtcttcgt catggtgggc ctcccccgcc cggggcaaga cctacttctc cacgaaagct 480
 tactcgctgc ctc 493

<210> 27
 <211> 1331
 <212> DNA
 <213> Homo sapien

<400> 27
 ggtggatata cgagacaatc tgctgggaat ttcttgggtt gacagctctt ggatccctat 60
 tttgaacagt ggtagtgtcc tggattactt ttcagaaaga agtaatcctt tttatgacag 120
 aacatgtaat aatgaagtgg tcaaaatgca gaggctaaca ttagaacact tgaatcagat 180
 ggttggaatc gactacatcc ttttgcattg tcaagagccc attcttttca tcattcggaa 240
 gcaacagcgg cagtcccctg cccaagttat ccactagct gattactata tcattgctgg 300
 agtgatctat caggcaccag acttgggata agttataaac tctagagtgc ttactgcagt 360
 gcatggtatt cagtcagctt ttgatgaagc tatgtcatac tgtcgatata atccttccaa 420
 agggatattg tggcacttca aagatcatga agagcaagat aaagtcagac cttaaagccaa 480
 aaggaaagaa gaaccaagct ctatttttca gagacaacgt gtggatgctt tactttttaga 540
 cctcagacaa aaatttccac ccaaatttgt gcagctaaag cctggagaaa agcctgttcc 600

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<210> 28
<211> 1333
<212> DNA
<213> Homo sapien
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<210> 29
<211> 813
<212> DNA
<213> Homo sapien
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<400> 29						
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accgagacaa	cagccccagc	tctctgtgctg	gcctcttcat	tgcttcacac	atcgggtttg	120
actggccccg	ggtctgggtc	caacctggaca	tcgctgtctcc	agtgcattgct	ggcgagcgag	180
ccacagcgtt	tqqqgtgqct	ctctactatgq	ctcttttttg	ccqgtgcctcc	gaggaccgcg	240

115				120				125							
Pro	Pro														
	130														
		<210>	34												
		<211>	506												
		<212>	PRT												
		<213>	Homo sapien												
		<400>	34												
Asn	Ser	Glu	Lys	Glu	Ile	Pro	Val	Leu	Asn	Glu	Leu	Pro	Val	Pro	Met
1				5					10					15	
Val	Ala	Arg	Tyr	Ile	Arg	Ile	Asn	Pro	Gln	Ser	Trp	Phe	Asp	Asn	Gly
			20					25					30		
Ser	Ile	Cys	Met	Arg	Met	Glu	Ile	Leu	Gly	Cys	Pro	Leu	Pro	Asp	Pro
		35					40					45			
Asn	Asn	Tyr	Tyr	His	Arg	Arg	Asn	Glu	Met	Thr	Thr	Thr	Asp	Asp	Leu
	50					55					60				
Asp	Phe	Lys	His	His	Asn	Tyr	Lys	Glu	Met	Arg	Gln	Leu	Met	Lys	Val
65					70					75					80
Val	Asn	Glu	Met	Cys	Pro	Asn	Ile	Thr	Arg	Ile	Tyr	Asn	Ile	Gly	Lys
				85					90					95	
Ser	His	Gln	Gly	Leu	Lys	Leu	Tyr	Ala	Val	Glu	Ile	Ser	Asp	His	Pro
			100					105					110		
Gly	Glu	His	Glu	Val	Gly	Glu	Pro	Glu	Phe	His	Tyr	Ile	Ala	Gly	Ala
		115					120					125			
His	Gly	Asn	Glu	Val	Leu	Gly	Arg	Glu	Leu	Leu	Leu	Leu	Leu	Leu	His
	130					135					140				
Phe	Leu	Cys	Gln	Glu	Tyr	Ser	Ala	Gln	Asn	Ala	Arg	Ile	Val	Arg	Leu
145					150					155					160
Val	Glu	Glu	Thr	Arg	Ile	His	Ile	Leu	Pro	Ser	Leu	Asn	Pro	Asp	Gly
				165					170					175	
Tyr	Glu	Lys	Ala	Tyr	Glu	Gly	Gly	Ser	Glu	Leu	Gly	Gly	Trp	Ser	Leu
			180					185					190		
Gly	Arg	Trp	Thr	His	Asp	Gly	Ile	Asp	Ile	Asn	Asn	Asn	Phe	Pro	Asp
		195					200					205			
Leu	Asn	Ser	Leu	Leu	Trp	Glu	Ala	Glu	Asp	Gln	Gln	Asn	Ala	Pro	Arg
	210					215					220				
Lys	Val	Pro	Asn	His	Tyr	Ile	Ala	Ile	Pro	Glu	Trp	Phe	Leu	Ser	Glu
225					230				235						240
Asn	Ala	Thr	Val	Ala	Thr	Glu	Thr	Arg	Ala	Val	Ile	Ala	Trp	Met	Glu
				245					250					255	
Lys	Ile	Pro	Phe	Val	Leu	Gly	Gly	Asn	Leu	Gln	Gly	Gly	Glu	Leu	Val
			260					265					270		
Val	Ala	Tyr	Pro	Tyr	Asp	Met	Val	Arg	Ser	Leu	Trp	Lys	Thr	Gln	Glu
		275					280					285			
His	Thr														

Asn Cys Phe Glu Leu Ser Ile Tyr Val Gly Cys Asp Lys Tyr Pro His
 355 360 365
 Glu Ser Glu Leu Pro Glu Glu Trp Glu Asn Asn Arg Glu Ser Leu Ile
 370 375 380
 Val Phe Met Glu Gln Val His Arg Gly Ile Lys Gly Ile Val Arg Asp
 385 390 395 400
 Leu Gln Gly Lys Gly Ile Ser Asn Ala Val Ile Ser Val Glu Gly Val
 405 410 415
 Asn His Asp Ile Arg Thr Ala Ser Asp Gly Asp Tyr Trp Arg Leu Leu
 420 425 430
 Asn Pro Gly Glu Tyr Val Val Thr Ala Lys Ala Glu Gly Phe Ile Thr
 435 440 445
 Ser Thr Lys Asn Cys Met Val Gly Tyr Asp Met Gly Ala Thr Arg Cys
 450 455 460
 Asp Phe Thr Leu Thr Lys Thr Asn Leu Ala Arg Ile Arg Glu Ile Met
 465 470 475 480
 Glu Thr Phe Gly Lys Gln Pro Val Ser Leu Pro Ser Arg Arg Leu Lys
 485 490 495
 Leu Arg Gly Arg Lys Arg Arg Gln Arg Gly
 500 505

<210> 35
 <211> 96
 <212> PRT
 <213> Homo sapien

<400> 35
 Met Asn Gly Glu Ala Asp Cys Pro Thr Asp Leu Glu Met Ala Ala Pro
 1 5 10 15
 Arg Gly Gln Asp Arg Trp Ser Gln Glu Asp Met Leu Thr Leu Leu Glu
 20 25 30
 Cys Met Lys Asn Asn Leu Pro Ser Asn Asp Ser Ser Gln Phe Lys Thr
 35 40 45
 Thr Gln Thr His Met Asp Arg Glu Lys Val Ala Leu Lys Asp Phe Ser
 50 55 60
 Gly Asp Met Cys Lys Leu Lys Trp Val Glu Ile Ser Asn Glu Val Arg
 65 70 75 80
 Lys Phe Arg Thr Leu Thr Glu Leu Ile Leu Asp Thr Gln Glu His Val
 85 90 95

<210> 36
 <211> 129
 <212> PRT
 <213> Homo sapien

<400> 36
 Gly Ile Val Val Phe Ser Leu Gly Ser Met Val Ser Glu Ile Pro Glu
 1 5 10 15
 Lys Lys Ala Val Ala Ile Ala Asp Ala Leu Gly Lys Ile Pro Gln Thr
 20 25 30
 Val Leu Trp Arg Tyr Thr Gly Thr Arg Pro Ser Asn Leu Ala Asn Asn
 35 40 45
 Thr Ile Leu Val Gln Trp Leu Pro Gln Asn Asp Leu Leu Gly His Pro
 50 55 60

000000"02129960


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<210> 40
<211> 245
<212> PRT
<213> Homo sapien
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<210> 41
<211> 163
<212> PRT
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<400> 41

<210> 42

<211> 243

<212> PRT

<213> Homo sapien

<400> 42

Val 1	Asp	Ile	Arg	Asp 5	Asn	Leu	Leu	Gly	Ile 10	Ser	Trp	Val	Asp	Ser 15	Ser
Trp	Ile	Pro	Ile	Leu	Asn	Ser	Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser	Glu
			20					25					30		
Arg	Ser	Asn	Pro	Phe	Tyr	Asp	Arg	Thr	Cys	Asn	Asn	Glu	Val	Val	Lys
		35					40					45			
Met	Gln	Arg	Leu	Thr	Leu	Glu	His	Leu	Asn	Gln	Met	Val	Gly	Ile	Glu
	50					55					60				
Tyr	Ile	Leu	Leu	His	Ala	Gln	Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg	Lys
65					70					75				80	
Gln	Gln	Arg	Gln	Ser	Pro	Ala	Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr	Tyr
				85					90					95	
Ile	Ile	Ala	Gly	Val	Ile	Tyr	Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val	Ile
			100					105					110		
Asn	Ser	Arg	Val	Leu	Thr	Ala	Val	His	Gly	Ile	Gln	Ser	Ala	Phe	Asp
		115					120					125			
Glu	Ala	Met	Ser	Tyr	Cys	Arg	Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp	Trp
	130					135					140				
His	Phe	Lys	Asp	His	Glu	Gln	Asp	Lys	Val	Arg	Pro	Lys	Ala		Lys
145					150				155						160
Arg	Lys	Glu	Glu	Pro	Ser	Ser	Ile	Phe	Gln	Arg	Gln	Arg	Val	Asp	Ala
				165					170					175	

Leu Leu Leu Asp Leu Arg Gln Lys Phe Pro Pro Lys Phe Val Gln Leu
 180 185 190
 Lys Pro Gly Glu Lys Pro Val Pro Val Asp Gln Thr Lys Lys Glu Ala
 195 200 205
 Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr Thr Lys
 210 215 220
 Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys Arg Met
 225 230 235 240
 Arg Leu Gln

<210> 43
 <211> 244
 <212> PRT
 <213> Homo sapien

<400> 43
 Ala Val Asp Ile Arg Asp Asn Leu Leu Gly Ile Ser Trp Val Asp Ser
 1 5 10 15
 Ser Trp Ile Pro Ile Leu Asn Ser Gly Ser Val Leu Asp Tyr Phe Ser
 20 25 30
 Glu Arg Ser Asn Pro Phe Tyr Asp Arg Thr Cys Asn Asn Glu Val Val
 35 40 45
 Lys Met Gln Arg Leu Thr Leu Glu His Leu Asn Gln Met Val Gly Ile
 50 55 60
 Glu Tyr Ile Leu Leu His Ala Gln Glu Pro Ile Leu Phe Ile Ile Arg
 65 70 75 80
 Lys Gln Gln Arg Gln Ser Pro Ala Gln Val Ile Pro Leu Ala Asp Tyr
 85 90 95
 Tyr Ile Ile Ala Gly Val Ile Tyr Gln Ala Pro Asp Leu Gly Ser Val
 100 105 110
 Ile Asn Ser Arg Val Leu Thr Ala Val His Gly Ile Gln Ser Ala Phe
 115 120 125
 Asp Glu Ala Met Ser Tyr Cys Arg Tyr His Pro Ser Lys Gly Tyr Trp
 130 135 140
 Trp His Phe Lys Asp His Glu Glu Gln Asp Lys Val Arg Pro Lys Ala
 145 150 155 160
 Lys Arg Lys Glu Glu Pro Ser Ser Ile Phe Gln Arg Gln Arg Val Asp
 165 170 175
 Ala Leu Leu Leu Asp Leu Arg Gln Lys Phe Pro Pro Lys Phe Val Gln
 180 185 190
 Leu Lys Pro Gly Glu Lys Pro Val Pro Val Asp Gln Thr Lys Lys Glu
 195 200 205
 Ala Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr Thr
 210 215 220
 Lys Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys Arg
 225 230 235 240
 Met Arg Leu Gln

<210> 44
 <211> 109
 <212> PRT
 <213> Homo sapien

000260"014960

Glu 1	Leu	His	Phe	Ser 5	Glu	Phe	Thr	Ser	Ala 10	Val	Ala	Asp	Met	Lys 15	Asn
Ser	Val	Ala	Asp 20	Arg	Asp	Asn	Ser	Pro 25	Ser	Ser	Cys	Ala	Gly 30	Leu	Phe
Ile	Ala	Ser 35	His	Ile	Gly	Phe	Asp 40	Trp	Pro	Gly	Val	Trp 45	Val	His	Leu
Asp 50	Ile	Ala	Ala	Pro	Val	His 55	Ala	Gly	Glu	Arg	Ala 60	Thr	Gly	Phe	Gly
Val 65	Ala	Leu	Leu	Leu	Ala 70	Leu	Phe	Gly	Arg	Ala 75	Ser	Glu	Asp	Pro 80	Leu
Leu	Asn	Leu	Val	Ser 85	Pro	Leu	Asp	Cys	Glu 90	Val	Asp	Ala	Gln 95	Glu	Gly
Asp	Asn	Met	Gly 100	Arg	Asp	Ser	Lys	Arg 105	Arg	Arg	Leu	Val			

<213> Homo sapien

Arg 1	Arg	Pro	Val	Met 5	Ala	Gln	Glu	Thr	Ala 10	Pro	Pro	Cys	Gly	Pro 15	Val
Ser	Arg	Gly	Asp 20	Ser	Pro	Ile	Ile	Glu 25	Lys	Met	Glu	Lys	Arg 30	Thr	Cys
Ala	Leu	Cys 35	Pro	Glu	Gly	His	Glu 40	Trp	Ser	Gln	Ile	Tyr 45	Phe	Ser	Pro
Ser	Gly 50	Asn	Ile	Val	Ala	His 55	Glu	Asn	Cys	Leu	Leu 60	Tyr	Ser	Ser	Gly
Leu 65	Val	Glu	Cys	Glu	Thr 70	Leu	Asp	Leu	Arg 75	Asn	Thr	Ile	Arg	Asn 80	Phe
Asp	Val	Lys	Ser 85	Val	Lys	Lys	Glu	Ile	Trp 90	Arg	Gly	Arg	Arg	Leu 95	Lys
Cys	Ser	Phe	Cys 100	Asn	Lys	Gly	Gly	Ala 105	Thr	Val	Gly	Cys	Asp 110	Leu	Trp
Phe	Cys 115	Lys	Lys	Ser	Tyr	His	Tyr 120	Val	Cys	Ala	Lys	Lys 125	Asp	Gln	Ala
Ile	Leu 130	Gln	Val	Asp	Gly	Asn 135	His	Gly	Thr	Tyr	Lys 140	Leu	Phe	Cys	Pro
Glu 145	His	Ser	Pro	Glu	Gln 150	Glu	Glu	Ala	Thr	Glu 155	Ser	Ala	Asp	Asp 160	Pro
Ser	Met	Lys	Lys 165	Lys	Arg	Gly	Lys	Asn 170	Lys	Arg	Leu	Ser	Ser 175	Gly	Pro
Pro	Ala	Gln	Pro 180	Lys	Thr	Met	Lys	Cys 185	Ser	Asn	Ala	Lys	Arg 190	His	Met
Thr	Glu	Glu 195	Pro	His	Gly	His	Thr 200	Asp	Ala	Ala	Val	Lys 205	Ser	Pro	Phe
Leu	Lys 210	Lys	Cys	Gln	Glu	Ala 215	Gly	Leu	Leu	Thr	Glu 220	Leu	Phe	Glu	His
Ile 225	Leu	Glu	Asn	Met	Asp 230	Ser	Val	His	Gly 235	Arg	Leu	Val	Asp	Glu 240	Thr
Ala	Ser	Glu	Ser	Asp	Tyr	Glu	Gly	Ile	Glu	Thr	Leu	Leu	Phe	Asp	Cys

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<210> 46
<211> 244
<212> PRT
<213> Homo sapien
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<210>	47
<211>	14
<212>	DNA

<400> 51						
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gtggccagtg	accagataga	gatgaatcgc	ctgaaggctc	agctggagaa	tgaaaagcag	120
aaagtggcag	agctgtattc	tatccataac	tctggagaca	aatctgatat	tcaggacctc	180

Thr	Met	Tyr	Arg	Ala	Leu	Arg	Leu	Leu	Ala	Arg	Ser	Arg	Pro	Leu	Val
1				5					10					15	
Arg	Ala	Pro	Ala	Ala	Ala	Leu	Ala	Ser	Ala	Pro	Gly	Leu	Gly	Gly	Ala
			20					25					30		
Ala	Val	Pro	Ser	Phe	Trp	Pro	Pro	Asn	Ala	Ala	Arg	Met	Ala	Ser	Gln
		35					40					45			

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<210> 57
<211> 165
<212> PRT
<213> Homo sapien
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<210> 58
<211> 259
<212> PRT
<213> Homo sapien
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															<400>	58
Glu	Ser	Glu	Gln	Lys	Gly	Lys	Ala	Ala	Leu	Ala	Ala	Thr	Leu	Glu	Glu	
1				5					10					15		
Tyr	Lys	Ala	Thr	Val	Ala	Ser	Asp	Gln	Ile	Glu	Met	Asn	Arg	Leu	Lys	
			20					25					30			

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<210> 59
<211> 125
<212> PRT
<213> Homo sapien
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<400> 59															
Gly 1	Thr	Ser	Phe	Ser 5	Lys	Asn	His	Ala	Ala 10	Pro	Phe	Ser	Lys	Val 15	Leu
Thr	Phe	Tyr	Arg 20	Lys	Glu	Pro	Phe	Thr 25	Leu	Glu	Ala	Tyr	Tyr 30	Ser	Ser
Pro	Gln	Asp 35	Leu	Pro	Tyr	Pro	Asp 40	Pro	Ala	Ile	Ala	Gln	Phe 45	Ser	Val
Gln	Lys 50	Val	Thr	Pro	Gln	Ser 55	Asp	Gly	Ser	Ser	Ser 60	Lys	Val	Lys	Val
Lys 65	Val	Arg	Val	Asn	Val 70	His	Gly	Ile	Phe	Ser 75	Val	Ser	Ser	Ala	Ser 80
Leu	Val	Glu	Val	His 85	Lys	Ser	Glu	Glu	Asn 90	Glu	Glu	Pro	Met	Glu 95	Thr
Asp	Gln	Asn	Ala 100	Lys	Glu	Glu	Glu	Lys 105	Met	Gln	Val	Asp	Gln 110	Glu	Glu
Pro	His	Val 115	Glu	Glu	Gln	Gln	Gln 120	Thr	Pro	Gly	Arg 125				

<210> 60
 <211> 246
 <212> PRT
 <213> Homo sapien

<400> 60
 Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro
 1 5 10 15
 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val
 20 25 30
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr
 35 40 45
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln
 50 55 60
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile
 65 70 75 80
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln
 85 90 95
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val
 100 105 110
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly
 115 120 125
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn
 130 135 140
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu
 145 150 155 160
 Thr Asp Gln Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly
 165 170 175
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu
 180 185 190
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn
 195 200 205
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr
 210 215 220
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala
 225 230 235 240
 Thr Ser Gly Ile Ser Thr
 245

<210> 61
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 61
 Gly Ile Phe Ser Val Ser Ser Ala Ser Leu Val Glu Val His Lys Ser
 1 5 10 15
 Glu Glu Asn Glu Glu Pro Met Glu Thr Asp Gln Asn Ala Lys Glu Glu
 20 25 30
 Glu Lys Met Gln Val Asp Gln Glu Glu Pro His Val Glu Glu Gln Gln
 35 40 45
 Gln Gln Thr Pro Ala Glu Asn Lys Ala Glu Ser Glu Glu Met Glu Thr
 50 55 60
 Ser Gln Ala Gly Ser Lys Asp Lys Lys Met Asp Gln Pro Pro Gln Ala

000260"0743950

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<210> 62
<211> 418
<212> PRT
<213> Homo sapien
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	<400> 62														
Met 1	Tyr	Arg	Pro	Ala 5	Arg	Val	Thr	Ser	Thr 10	Ser	Arg	Phe	Leu 15	Asn	Pro
Tyr	Val	Val	Cys 20	Phe	Ile	Val	Val	Ala 25	Gly	Val	Val	Ile	Leu 30	Ala	Val
Thr	Ile	Ala 35	Leu	Leu	Val	Tyr	Phe 40	Leu	Ala	Phe	Asp	Gln 45	Lys	Ser	Tyr
Phe 50	Tyr	Arg	Ser	Ser	Phe	Gln 55	Leu	Leu	Asn	Val	Glu 60	Tyr	Asn	Ser	Gln
Leu 65	Asn	Ser	Pro	Ala	Thr 70	Gln	Glu	Tyr	Arg	Thr 75	Leu	Ser	Gly	Arg	Ile 80
Glu	Ser	Leu	Ile	Thr 85	Lys	Thr	Phe	Lys	Glu 90	Ser	Asn	Leu	Arg	Asn	Gln
Phe	Ile	Arg	Ala 100	His	Val	Ala	Lys	Leu 105	Arg	Gln	Asp	Gly	Ser	Gly	Val
Arg	Ala	Asp 115	Val	Val	Met	Lys	Phe 120	Gln	Phe	Thr	Arg	Asn	Asn	Asn	Gly
Ala	Ser	Met 130	Lys	Ser	Arg	Ile	Glu 135	Ser	Val	Leu	Arg	Gln	Met	Leu	Asn
Asn 145	Ser	Gly	Asn	Leu	Glu	Ile	Asn	Pro	Ser	Thr 155	Glu	Ile	Thr	Ser	Leu 160
Thr	Asp	Gln	Ala 165	Ala	Asn	Trp	Leu	Ile 170	Asn	Glu	Cys	Gly	Ala	Gly	
Pro	Asp	Leu 180	Ile	Thr	Leu	Ser	Glu	Gln 185	Arg	Ile	Leu	Gly	Gly	Thr	Glu
Ala	Glu	Glu 195	Gly	Ser	Trp	Pro	Trp 200	Gln	Val	Ser	Leu	Arg	Leu	Asn	Asn
Ala 225	His 210	His	Cys	Gly	Gly	Ser 215	Leu	Ile	Asn	Asn	Met 220	Trp	Ile	Leu	Thr
Ala 225	Ala	His	Cys	Phe	Arg	Ser 230	Asn	Ser	Asn	Pro 235	Arg	Asp	Trp	Ile	Ala 240
Thr	Ser	Gly	Ile	Ser 245	Thr	Thr	Phe	Pro	Lys 250	Leu	Arg	Met	Arg	Val	Arg
Asn	Ile	Leu	Ile 260	His	Asn	Asn	Tyr	Lys 265	Ser	Ala	Thr	His	Glu	Asn	Asp
Ile	Ala	Leu	Val 275	Arg	Leu	Glu	Asn 280	Ser	Val	Thr	Phe	Thr	Lys	Asp	Ile
His	Ser	Val	Cys	Leu	Pro	Ala 295	Ala	Thr	Gln	Asn	Ile 300	Pro	Pro	Gly	Ser
Thr 305	Ala	Tyr	Val	Thr	Gly 310	Trp	Gly	Ala	Gln	Glu	Tyr	Ala	Gly	His	Thr 320

	20		25		30
Ala Ser Gly	Ser Leu Val	Ala Thr Leu Gln Ser	Leu Gly Ala Thr Gly		
	35	40	45		
Leu Ser Gly	Leu Thr Lys Phe	Ile Leu Gly Ser	Ile Gly Ser Ala Ile		
	50	55	60		
Ala Ala Val	Ile Ala Arg Phe Tyr				
65	70				

<210> 66
 <211> 2581
 <212> DNA
 <213> Homo sapien

<400> 66

ctttcaaccc	gcgctcgcgc	gtctccagccc	cgcgcgcgcgc	caccccttgc	cctcccggcg	60
gctccgcagg	gtgagggtggc	tttgaccccg	ggttgcccgc	ccagcacgac	cgaggagggtg	120
gctggacagc	tggaggatga	acggagaagc	cgactgcccc	acagacctgg	aaatggccgc	180
ccccaaaggc	caagaccgtt	ggctccaggga	agacatgctg	actttgctgg	aatgcatgaa	240
gaacaacctt	ccatccaatg	acagctccaa	gttcaaaacc	accgaatcac	acatggactg	300
ggaaaaagta	gcattttaaag	acttttctgg	agacatgtgc	aagctcaaat	gggtgggagat	360
ttctaatagag	gtgaggaagt	tccgtacatt	gacagaattg	atcctcgatg	ctcaggaaca	420
tgttaaaaat	ccttacaaag	gcaaaaaact	caagaaacac	ccagacttcc	caaagaagcc	480
cctgaccctt	tatttccgct	tcttcatgga	gaagcggggc	aagtatgcga	aactccaccc	540
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gaagaagaag	atgaaatata	ttcaggactt	ccagagagag	aaacaggagt	tgcagcgaaa	660
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<210> 67
<211> 764
<212> PRT
<213> Homo sapien

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Cys Met Lys Asn Asn Leu Pro Ser Asn Asp Ser Ser Lys Phe Lys Thr
35     40     45
Thr Glu Ser His Met Asp Trp Glu Lys Val Ala Phe Lys Asp Phe Ser
50     55     60
Gly Asp Met Cys Lys Leu Lys Trp Val Glu Ile Ser Asn Glu Val Arg
65     70     75     80
Lys Phe Arg Thr Leu Thr Glu Leu Ile Leu Asp Ala Gln Glu His Val
85     90     95
Lys Asn Pro Tyr Lys Gly Lys Lys Leu Lys Lys His Pro Asp Phe Pro
100    105    110
Lys Lys Pro Leu Thr Pro Tyr Phe Arg Phe Phe Met Glu Lys Arg Ala
115    120    125
Lys Tyr Ala Lys Leu His Pro Glu Met Ser Asn Leu Asp Leu Thr Lys
130    135    140
Ile Leu Ser Lys Lys Tyr Lys Glu Leu Pro Glu Lys Lys Lys Met Lys
145    150    155    160
Tyr Ile Gln Asp Phe Gln Arg Glu Lys Gln Glu Phe Glu Arg Asn Leu
165    170    175
Ala Arg Phe Arg Glu Asp His Pro Asp Leu Ile Gln Asn Ala Lys Lys
180    185    190
Ser Asp Ile Pro Glu Lys Pro Lys Thr Pro Gln Gln Leu Trp Tyr Thr
195    200    205
His Glu Lys Lys Val Tyr Leu Lys Val Arg Pro Asp Ala Thr Thr Lys
210    215    220
Glu Val Lys Asp Ser Leu Gly Lys Gln Trp Ser Gln Leu Ser Asp Lys
225    230    235    240
Lys Arg Leu Lys Trp Ile His Lys Ala Leu Glu Gln Arg Lys Glu Tyr
245    250    255
Glu Glu Ile Met Arg Asp Tyr Ile Gln Lys His Pro Glu Leu Asn Ile
260    265    270
Ser Glu Glu Gly Ile Thr Lys Ser Thr Leu Thr Lys Ala Glu Arg Gln
275    280    285
Leu Lys Asp Lys Phe Asp Gly Arg Pro Thr Lys Pro Pro Pro Asn Ser
290    295    300
Tyr Ser Leu Tyr Cys Ala Glu Leu Met Ala Asn Met Lys Asp Val Pro
305    310    315    320
Ser Thr Glu Arg Met Val Leu Cys Ser Gln Gln Trp Lys Leu Leu Ser
325    330    335
Gln Lys Glu Lys Asp Ala Tyr His Lys Lys Cys Asp Gln Lys Lys Lys

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000269"02729960

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Lys	Gly	Gly	Ser	Glu	Lys	Pro	Lys	Arg	Pro	Val	Ser	Ala	Met	Phe	Ile																																
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Phe	Ser	Glu	Glu	Lys	Arg	Arg	Gln	Leu	Gln	Glu	Glu	Arg	Pro	Glu	Leu																																
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		500			505						510																																				
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		515			520						525																																				
Met	Trp	Ile	Lys	Lys	Ala	Ala	Glu	Asp	Gln	Lys	Arg	Tyr	Glu	Arg	Glu																																
		530			535						540																																				
Leu	Ser	Glu	Met	Arg	Ala	Pro	Pro	Ala	Ala	Thr	Asn	Ser	Ser	Lys	Lys																																
545				550			555																																								
Met	Lys	Phe	Gln	Gly	Glu	Pro	Lys	Lys	Pro	Pro	Met	Asn	Gly	Tyr	Gln																																
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705				710			715																																								
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<210> 68
 <211> 434
 <212> DNA
 <213> Homo sapien

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 ccaatcgcat ctgcaaagtg ttggcgggtca atcaagagaa cgagcagctt atggaagact 180
 atgagaagct ggccagtgat ctggttgagt ggatccgccg caccatccca tggctggaga 240
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 atagacgcct gcacaagccg cccaaggtgc aggagaagtg ccagctggag atcaacttta 360
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 ggatggtctc ggat 434

<210> 69
 <211> 244
 <212> DNA
 <213> Homo sapien

<400> 69
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 aactgcgga aggcgcagg gtccctctgcc taggaaaacc agagaccttt gtacacttgt 120
 ttatgtgctg accttccctc cactattgtc ctgtgacct gccaaatccc cttttgtgag 180
 aaacacccaa gaatgatcaa taaaaataa attaatttag gaaaaaaaaa aaaaaaaact 240
 cgag 244

<210> 70
 <211> 437
 <212> DNA
 <213> Homo sapien

<400> 70
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 ccaggcagtg ggaccccgcg agctgcacgt ccctgggcac ggacaagtgt gaggcactgt 180
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<210> 71
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 71
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 gaccaatcca aggaggctg caggaggagac ttcagggtgac cctccagggg actaccgaga 180
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 ttccacttca accccgggta tgaggaagga g 271

<210> 72
 <211> 290
 <212> DNA
 <213> Homo sapien

<400> 72
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 cggtagccga ggggtcccagc tcctgccttc ggcggaacgt gatcagcgag agggagcgca 180
 ggaagcggat gtcgttgagc tgtgagcgtc tgcgggccct gctgccccag ttcgatggcc 240
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<210> 73
 <211> 144
 <212> PRT
 <213> Homo sapien

<400> 73
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 Lys Ala Ile Met Thr Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly
 20 25 30
 Ala Gln Lys Ala Glu Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala
 35 40 45
 Val Asn Gln Glu Asn Glu Gln Leu Met Glu Asp Tyr Glu Lys Leu Ala
 50 55 60
 Ser Asp Leu Leu Glu Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asn
 65 70 75 80
 Arg Val Pro Glu Asn Thr Met His Ala Met Gln Gln Lys Leu Glu Asp
 85 90 95
 Phe Arg Asp Tyr Arg Arg Leu His Lys Pro Pro Lys Val Gln Glu Lys
 100 105 110
 Cys Gln Leu Glu Ile Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu
 115 120 125
 Ser Asn Arg Pro Ala Phe Met Pro Ser Glu Gly Arg Met Val Ser Asp
 130 135 140

<210> 74
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 74
 Gly Ser Met Leu Val Glu Ser His His His Ser Leu Ile Ser Ser Thr
 1 5 10 15
 Gln Gly His Lys His Cys Gly Arg Pro Gln Gly Pro Leu Pro Arg Lys
 20 25 30
 Thr Arg Asp Leu Cys Ser Leu Val Tyr Val Leu Thr Phe Pro Pro Leu
 35 40 45
 Leu Ser Cys Asp Pro Ala Lys Ser Pro Phe Val Arg Asn Thr Gln Glu
 50 55 60

<210> 75
 <211> 145

000350 0229900

<213> Homo sapien

[illegible]

<211> 69

<212> PRT

<213> Homo sapien

[illegible]

<210> 77

<211> 96

<212> PRT

<213> Homo sapien

<400> 77

Glu Pro Tyr Pro Glu Val Ser Arg Ile Pro Thr Val Arg Gly Cys Asn
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 20 25 30
 Ser Gly Pro Pro Lys Ala Pro Thr Val Ala Glu Gly Pro Ser Ser Cys
 35 40 45

<400> 79

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gcaaacacct acaataaagc catctacttt tagggaaagg gagttgaaaa tgcaaccaac     2700
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<210> 80

<211> 1460

<212> DNA

<213> Homo sapien


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<210> 82
<211> 418
<212> PRT
<213> Homo sapien
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			20					25					30		
Thr	Ile	Ala	Leu	Leu	Val	Tyr	Phe	Leu	Ala	Phe	Asp	Gln	Lys	Ser	Tyr
		35					40					45			
Phe	Tyr	Arg	Ser	Ser	Phe	Gln	Leu	Leu	Asn	Val	Glu	Tyr	Asn	Ser	Gln
	50					55					60				
Leu	Asn	Ser	Pro	Ala	Thr	Gln	Glu	Tyr	Arg	Thr	Leu	Ser	Gly	Arg	Ile
65					70					75					80
Glu	Ser	Leu	Ile	Thr	Lys	Thr	Phe	Lys	Glu	Ser	Asn	Leu	Arg	Asn	Gln
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Phe	Ile	Arg	Ala	His	Val	Ala	Lys	Leu	Arg	Gln	Asp	Gly	Ser	Gly	Val
			100					105					110		
Arg	Ala	Asp	Val	Val	Met	Lys	Phe	Gln	Phe	Thr	Arg	Asn	Asn	Asn	Gly
		115					120					125			
Ala	Ser	Met	Lys	Ser	Arg	Ile	Glu	Ser	Val	Leu	Arg	Gln	Met	Leu	Asn
	130					135					140				

Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu
 145 150 155 160
 Thr Asp Gln Ala Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly
 165 170 175
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu
 180 185 190
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn
 195 200 205
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr
 210 215 220
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala
 225 230 235 240
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg
 245 250 255
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp
 260 265 270
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile
 275 280 285
 His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser
 290 295 300
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr
 305 310 315 320
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val
 325 330 335
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu
 340 345 350
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser
 355 360 365
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val
 370 375 380
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly
 385 390 395 400
 Val Tyr Thr Arg Val Thr Ala Tyr Leu Asp Trp Ile Arg Gln Gln Thr
 405 410 415
 Gly Ile

<210> 83

<211> 418

<212> PRT

<213> Homo sapien

<400> 83

Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro
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 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr
 35 40 45
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln
 50 55 60
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile
 65 70 75 80
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln

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85 90 95
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val
 100 105 110
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly
 115 120 125
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn
 130 135 140
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu
 145 150 155 160
 Thr Asp Gln Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly
 165 170 175
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu
 180 185 190
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn
 195 200 205
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr
 210 215 220
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala
 225 230 235 240
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg
 245 250 255
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp
 260 265 270
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile
 275 280 285
 His Ser Val Cys Leu Pro Ala Thr Gln Asn Ile Pro Pro Gly Ser
 290 295 300
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr
 305 310 315 320
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val
 325 330 335
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu
 340 345 350
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser
 355 360 365
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val
 370 375 380
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly
 385 390 395 400
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 405 410 415
 Gly Ile

<210> 84
 <211> 489
 <212> DNA
 <213> Homo sapien

<400> 84
 aaaagggttaa gcttgatgat taccaggaac gaatgaacaa aggggaaagg cttaatcaag 60
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 aattacagag gagtttcatg gcactaagtc aagatattca gaaaacaata aagaagacag 180
 cacgtcggga gcagcttatg agagaagaag ctgaacagaa acgtttaaaa actgtacttg 240

agctacagta tgttttggac aaattgggag atgatgaagt gctgactgac ctgaaacaag 300
 gtttgaatgg agtgccaata ttgtccgaag aggagttgtc attggttgat gaattctata 360
 agctagtaga ccctgaacgg gacatgagct tgaggttgaa tgaacagtat gaacatgcct 420
 ccattcacct gtgggacctg ctggaaggga aggaaaaacc tgtatgtgga accacctata 480
 aagttctaa 489

<210> 85
 <211> 304
 <212> DNA
 <213> Homo sapien

<400> 85
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 agctggagaa ggagaagagc gagatgaaga tggagatcga tgacctcgct tgtaacatgg 180
 aggtcatctc caaatctaaag ggaaaccttg agaagatgtg ccgcacactg gaggaccaag 240
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 agag 304

<210> 86
 <211> 296
 <212> DNA
 <213> Homo sapien

<400> 86
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 ttccttaagg attaaaatgt ttagggcaac acgtgttact tccacttcca gatttctgaa 120
 tccatatgtt gtatgtttcc ttgtcctccc aggggttgtg atcctggcag tcccatagc 180
 tctacttggt tactttttag cttttgatca aaaatcttac ttttattgga gcaattttcc 240
 actcccaaat gttgaatata atagtccgtt taattccccc gcttcaccgg gaattc 296

<210> 87
 <211> 904
 <212> DNA
 <213> Homo sapien

<400> 87
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 tatctgatcg ttctaaaaaa gagttgtccc cggttttaac cagtgaagtt catagtgttc 180
 gtgcaggacg gcatcttgct accaaattga atattttagt acagcaacat tttgacttgg 240
 cttcaactac tattacaaat attccaatga aggaagaaca gcatgctaac acatctgcca 300
 attatgatgt ggagctactt catcacaaag atgcacatgt agatttctctg aaaagtgggtg 360
 attcgcactc aggtggcggc agtcgagaag gctcgtttaa agaaacaata acattaaagt 420
 ggtgtacacc aaggacaaat aacattgaat tacactattg tactggagct tatcggattt 480
 cacctgtaga tgtaaatagt agaccttcct cctgccttac taattttctt ctaaatggtc 540
 gttctgtttt attggaacaa ccacgaaagt cagggttctaa agtcattagt catatgctta 600
 gtagccatgg aggagagatt tttttgcacg tccttagcag ttctcgatcc attctagaag 660
 atccaccttc aattagttaa ggatgtggag gaagagttac agactaccgg attacagatt 720
 ttggtgaatt tatgagggga aaacagatta actccttttc tacaccccag atataaaatc 780
 gatggaagtc ttgaggtccc tttggaaccg agccaaaaga tcagttaaaa aaacataccc 840
 gttactggcc tatgatttca aaaaccacc atttttaaca tgcaagcgggt agttccgtta 900
 acca 904

<210> 88
 <211> 387
 <212> DNA
 <213> Homo sapien

<400> 88
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 ccgctgcgat tcagaagatg ttggatgaca ataaccatct tattcagtggt ataattggact 180
 ctccagaataa aggaaagacc tcagagtgtt ctccagtatca gcagatgttg cacacaaact 240
 tgggtatacct tgctacaata gcagattcta atcaaaaatat gcagtcctct ttaccagcac 300
 caccacacac gaatatgcct atgggtcctg gagggatgaa tcagagcggg cctccccac 360
 ctccacgctc tcacaacatg ccttcaa 387

<210> 89
 <211> 481
 <212> DNA
 <213> Homo sapien

<400> 89
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 tgaaccagca agctatacag attcttggaa agatttctca gccagtgggtg gtgggtggcca 180
 ttgtaggact gtaccgtaca gggaaatcct acttgatgaa ccatctggca ggacagaatc 240
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 tgccccacc atccaagcca aaccacaccc tggtccttct ggacaccgaa ggtctgggcg 360
 atgtggaaaa ggggtgacct aagaatgact cctggatctt tgccctggct gtgctcctgt 420
 gcagcacctt tgtctacaac agcatgagca ccatcaacca ccaggccctg gagcagctgc 480
 a 481

<210> 90
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 90
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 accagcaagc tatacagatt cttgaaaaga tttctcagcc agtgggtgggtg gtggccattg 180
 taggactgta ccgtacaggg aaatcctact tgatgaacca tctggcagga cagaatcatg 240
 gcttccctct gggctccacg gtgcagctctg aaaccaaggg catctggatg tgggtgcgtgc 300
 cccaccatc caagccaaac cacaccctgg tccttctgga caccgaagggt ctgggcgatg 360
 tggaaaaggg tgaccctaag aatgactcct ggatctttgc cctggctgtg ctctgtgca 420
 gcacctttgt ctacaacagc atgagcacca tcaaccacca agccctggag cagctgcatt 480
 atgtgacgga c 491

<210> 91
 <211> 488
 <212> DNA
 <213> Homo sapien

<400> 91
 ttccagagtc agccgcattc tcttttgcgt cggcagccga gccacatcgc tcagacacca 60
 tggggaagggt gaaggtcggg gtcaacggat ttggctcgtat tgggcgcctg gtcaccaggg 120

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ctgctttttaa ctctggtaaa gtggatattg ttgccatcaa tgaccccttc attgacctca 180
 actacatggg ttacatgttc caatatgatt ccacccatgg caaattccat ggcaccgtcg 240
 aggctgagaa cgggaagctt gtcataaatg gaaatcccat caccatcttc caggagcgag 300
 atccctccaa aatcaagtgg ggcgatgctg gcgctgagta cgtcgtggag tccactggcg 360
 tcttcaccac catggagaag gctggggctc atttgcaggg gggagccaaa agggcatca 420
 tctctgcccc tctgctgatg ccccatgttc gtcatgggtg tgaaccatga gaagtatgac 480
 acagcctc 488

<210> 92
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 92
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 ggaaggtgaa ggtcggagtc aacggatttg gtcgtattgg gcgcctggtc accagggctg 120
 cttttaactc tggtaaagtg gatattgttg ccatcaatga ccccttcatt gacctcaact 180
 acatgggttta catgttccaa tatgattcca cccatggcaa attccatggc accgtcgagg 240
 ctgagaacgg gaagcttgct atcaatggaa atcccatcac catcttcag gagcgagatc 300
 cctccaaaat caagtggggc gatactggcg ctgagtacgt cgtggagtcc actggcgtct 360
 tcaccacat ggagaaggct gggg 384

<210> 93
 <211> 162
 <212> PRT
 <213> Homo sapien

<400> 93
 Lys Gly Lys Leu Asp Asp Tyr Gln Glu Arg Met Asn Lys Gly Glu Arg
 1 5 10 15
 Leu Asn Gln Asp Gln Leu Asp Ala Val Ser Lys Tyr Gln Glu Val Thr
 20 25 30
 Asn Asn Leu Glu Phe Ala Lys Glu Leu Gln Arg Ser Phe Met Ala Leu
 35 40 45
 Ser Gln Asp Ile Gln Lys Thr Ile Lys Lys Thr Ala Arg Arg Glu Gln
 50 55 60
 Leu Met Arg Glu Glu Ala Glu Gln Lys Arg Leu Lys Thr Val Leu Glu
 65 70 75 80
 Leu Gln Tyr Val Leu Asp Lys Leu Gly Asp Asp Glu Val Arg Thr Asp
 85 90 95
 Leu Lys Gln Gly Leu Asn Gly Val Pro Ile Leu Ser Glu Glu Glu Leu
 100 105 110
 Ser Leu Leu Asp Glu Phe Tyr Lys Leu Val Asp Pro Glu Arg Asp Met
 115 120 125
 Ser Leu Arg Leu Asn Glu Gln Tyr Glu His Ala Ser Ile His Leu Trp
 130 135 140
 Asp Leu Leu Glu Gly Lys Glu Lys Pro Val Cys Gly Thr Thr Tyr Lys
 145 150 155 160
 Val Leu

<210> 94
 <211> 100
 <212> PRT

000260"026960

<400> 94

<210> 95

<211> 99

<212> PRT

<213> Homo sapien

<400> 95

[illegible]

<210> 96

<211> 257

<212> PRT

<213> Homo sapien

<400> 96

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1				5					10					15	
His	Leu	Met	Gln	Ile	Gln	Lys	Cys	Glu	Leu	Val	Leu	Ile	His	Thr	Tyr
			20					25					30		
Pro	Val	Gly	Glu	Asp	Ser	Leu	Val	Ser	Asp	Arg	Ser	Lys	Lys	Glu	Leu
		35					40					45			
Ser	Pro	Val	Leu	Thr	Ser	Glu	Val	His	Ser	Val	Arg	Ala	Gly	Arg	His
	50					55					60				
Leu	Ala	Thr	Lys	Leu	Asn	Ile	Leu	Val	Gln	Gln	His	Phe	Asp	Leu	Ala

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<210> 97
<211> 128
<212> PRT
<213> Homo sapien
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<210> 98
<211> 159
<212> PRT
<213> Homo sapien
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<400> 98
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 Ala Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu
 20 25 30
 Asn Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu
 35 40 45
 Glu Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr
 50 55 60
 Arg Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His
 65 70 75 80
 Gly Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp
 85 90 95
 Met Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu
 100 105 110
 Leu Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn
 115 120 125
 Asp Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val
 130 135 140
 Tyr Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu
 145 150 155

<210> 99
 <211> 147
 <212> PRT
 <213> Homo sapien

<400> 99
 Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu Asn
 1 5 10 15
 Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu Glu
 20 25 30
 Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg
 35 40 45
 Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His Gly
 50 55 60
 Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp Met
 65 70 75 80
 Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu Leu
 85 90 95
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn Asp
 100 105 110
 Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val Tyr
 115 120 125
 Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His Tyr
 130 135 140
 Val Thr Asp
 145

<210> 100
 <211> 124
 <212> PRT
 <213> Homo sapien

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<210> 101
<211> 127
<212> PRT
<213> Homo sapien
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<210> 102
<211> 1225
<212> DNA
<213> Homo sapien
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<400> 102						
atggcgggcg	ggtcgctgct	gggggtggcg	gcggcagagg	gggcggcggc	cctggcgcca	60
gcggagacgg	cagccgtgac	ggtggcagcg	gcggcgcggg	acctgggcct	gggggaatga	120
ggcggccgcg	gcgggccagc	ggcgagccg	tgtagcggag	aagctcccc	tccctgcttc	180
ccttggccga	gccgggggcg	cgcgcgcacg	cggccgtcca	gagcgggctc	ccccaccctc	240
gactcctgcg	accgcaccg	caccccacc	cgggcccgga	ggatgatgaa	gctcaagtcg	300
aaccagacc	gcacctaga	cggcgacggc	tacaagaagc	gggcgcgatg	cctgtgtttc	360
cgaacgcaqa	gcgaaggagc	qqtgcctactc	qtgagcagta	qtgcgccatcc	agacagatgg	420

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<210> 103
<211> 741
<212> DNA
<213> Homo sapien
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<210> 104
<211> 321
<212> DNA
<213> Homo sapien
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<210> 105
<211> 389
<212> DNA
<213> Homo sapien
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<400> 105

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cgcttccagc	atatttttc	tttgcaccca	tgggcaattt	gagaaaattt	accttttagaa	120
cgaactctgt	taaaggtaca	gacagtacaa	tactttttat	tcagaagggt	tctgcataaa	180
ggtgatagtc	ttttgactta	atatattatt	gtctcctgcc	ttgtgtttct	ggaatgaatg	240
aaggtcatta	tttagaagat	aatctgggtt	gtatttgtgt	cgtcagattg	aattttcatt	300
gcacatgcta	cttaatgtct	ttaccaaata	ataacaaagg	gaaagaaaac	caaatataga	360
tgtataataa	ggaaaagctg	gcctataga				389

<210> 106

<211> 446

<212> DNA

<213> Homo sapien

<400> 106

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acaagtatca	ctccattggt	cagagagtaa	tgtattagtt	ctgcccatt	cattcttcac	120
ttttatttct	tccatttcat	tagcatttat	atcagctcaa	gaagttaagg	ttagaaaatt	180
ttccacttca	aattttcagt	acagaaatgt	gctgtgatgt	ttgacaagac	tatttcatag	240
taagtgagtt	aatgtttatt	ggcctctgct	ctcctctgtg	tcagacctag	gaagcctgag	300
gattacttag	ttgttctgtc	tctgggtcca	caggcagaat	ttggcccatc	caaagactgg	360
ccaagtgcc	aaaaaaggcc	tgattaggcc	ctgaaattca	gtgaaattct	gcctgaagaa	420
acctcttatt	gaatttgaaa	accata				446

<210> 107

<211> 467

<212> DNA

<213> Homo sapien

<400> 107

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cggttccgcg	cccttctcgc	gcctcggggc	tgcgaggctg	gggaaggggt	tggagggggc	120
tgttgatcgc	cgcgtttaag	ttgcgctcgg	ggcggccatg	tcggccggcg	aggctcgagcg	180
cctagtgtcg	gagctgagcg	gcgggaccgg	aggggatgag	gaggaagagt	ggctctatgg	240
cgatgaagat	gaagttgaaa	ggccagaaga	agaaaatgcc	agtgctaata	ctccatctgg	300
aattgaagat	gaaactgctg	aaaatggtgt	accaaaaccg	aaagtgactg	agaccgaaga	360
tgatagtgat	agtgcacagc	atgatgatga	agatgatgtg	catgtcacta	taggagacat	420
taaaacggga	gcaccacagt	atggggagtta	tggtagagca	cctgtaa		467

<210> 108

<211> 491

<212> DNA

<213> Homo sapien

<400> 108

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gtccgtttgtg	agcacgatgg	cgctcatgact	ggagccaacg	gggaagtgtc	cttcatcaac	180
atcaagacac	tcaatgagtg	ggattccagg	cactgtaatg	gcgttgactg	gcgtcagaag	240
ctggactctc	agcgaggggc	tgtcattgcc	acggagctga	agaacaacag	ctacaagttg	300
gcccggtgga	cctgctgtgc	tttgctggct	ggatctgagt	acctcaagct	tggttatgtg	360
tctcggtacc	acgtgaaaga	ctcctcacgc	cacgtcatcc	taggcacca	gcagttcaag	420
cctaattgagt	ttgccagcca	gatcaacctg	agcgtggaga	atgcctgagg	cattttacgc	480
tgcgtcattg	a					491

<400> 109

 $\langle 400 \rangle$ 110

<400> 111

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Tyr	Lys	Lys	Arg	Ala	Ala	Cys	Leu	Cys	Phe	Arg	Ser	Glu	Ser	Glu	Glu
			20					25					30		
Glu	Val	Leu	Leu	Val	Ser	Ser	Ser	Arg	His	Pro	Asp	Arg	Trp	Ile	Val
		35					40					45			
Pro	Gly	Gly	Gly	Met	Glu	Pro	Glu	Glu	Glu	Pro	Ser	Val	Ala	Ala	Val
	50					55					60				
Arg	Glu	Val	Cys	Glu	Glu	Ala	Gly	Val	Lys	Gly	Thr	Leu	Gly	Arg	Leu
65				70						75				80	
Val	Gly	Ile	Phe	Glu	Asn	Gln	Glu	Arg	Lys	His	Arg	Thr	Tyr	Val	Tyr
			85						90					95	
Val	Leu	Ile	Val	Thr	Glu	Val	Leu	Glu	Asp	Trp	Glu	Asp	Ser	Val	Asn
			100					105					110		
Ile	Gly	Arg	Lys	Arg	Glu	Trp	Phe	Lys	Ile	Glu	Asp	Ala	Ile	Lys	Val
		115					120					125			
Leu	Gln	Tyr	His	Lys	Pro	Val	Gln	Ala	Ser	Tyr	Phe	Glu	Thr	Leu	Arg
	130					135					140				

Gln Gly Tyr Ser Ala Asn Asn Gly Thr Pro Val Val Ala Thr Thr Tyr
 145 150 155 160
 Ser Val Ser Ala Gln Ser Ser Met Ser Gly Ile Arg
 165 170

<210> 112
 <211> 247
 <212> PRT
 <213> Homo sapien

<400> 112
 Arg Asn Leu Asn Arg Ile Gln Gln Arg Asn Gly Val Ile Ile Thr Thr
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 Tyr Gln Met Leu Ile Asn Asn Trp Gln Gln Leu Ser Ser Phe Arg Gly
 20 25 30
 Gln Glu Phe Val Trp Asp Tyr Val Ile Leu Asp Glu Ala His Lys Ile
 35 40 45
 Lys Thr Ser Ser Thr Lys Ser Ala Ile Cys Ala Arg Ala Ile Pro Ala
 50 55 60
 Ser Asn Arg Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn Asn Leu Gln
 65 70 75 80
 Glu Leu Trp Ser Leu Phe Asp Phe Ala Cys Gln Gly Ser Leu Leu Gly
 85 90 95
 Thr Leu Lys Thr Phe Lys Met Glu Tyr Glu Asn Pro Ile Thr Arg Ala
 100 105 110
 Arg Glu Lys Asp Ala Thr Pro Gly Glu Lys Ala Leu Gly Phe Lys Ile
 115 120 125
 Ser Glu Asn Leu Met Ala Ile Lys Pro Tyr Phe Leu Arg Arg Thr
 130 135 140
 Lys Glu Asp Val Gln Lys Lys Lys Ser Ser Asn Pro Glu Ala Arg Leu
 145 150 155 160
 Asn Glu Lys Asn Pro Asp Val Asp Ala Ile Cys Glu Met Pro Ser Leu
 165 170 175
 Ser Arg Arg Asn Asp Leu Ile Ile Trp Ile Arg Leu Val Pro Leu Gln
 180 185 190
 Glu Glu Ile Tyr Arg Lys Phe Val Ser Leu Asp His Ile Lys Glu Leu
 195 200 205
 Leu Met Glu Thr Arg Ser Pro Leu Ala Glu Leu Gly Val Leu Lys Lys
 210 215 220
 Leu Cys Asp His Pro Arg Leu Leu Ser Ala Arg Ala Cys Cys Leu Leu
 225 230 235 240
 Asn Leu Gly Thr Phe Ser Ala
 245

<210> 113
 <211> 107
 <212> PRT
 <213> Homo sapien

<400> 113
 Leu Leu Cys Val Ile Lys Asp Thr Lys Leu Leu Cys Tyr Lys Ser Ser
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 Lys Asp Gln Gln Pro Gln Met Glu Leu Pro Leu Gln Gly Cys Asn Ile
 20 25 30

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<210> 114
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<212> PRT
<213> Homo sapien
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<210> 115
<211> 129
<212> PRT
<213> Homo sapien
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<400> 115															
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1				5					10					15	
Ala	Trp	Arg	Gly	Leu	Ser	Thr	Ser	Ala	Ala	Ala	His	Ala	Ala	Ser	Arg
			20					25					30		
Ser	Gln	Ala	Ala	Ala	Val	Pro	Val	Glu	Phe	Gln	Glu	His	His	Leu	Ser
		35				40						45			
Glu	Val	Gln	Asn	Met	Ala	Ser	Glu	Glu	Lys	Leu	Glu	Gln	Val	Leu	Ser
	50					55					60				
Ser	Met	Lys	Glu	Asn	Lys	Val	Ala	Ile	Ile	Gly	Lys	Ile	His	Thr	Pro
65					70					75					80

<210>	119
<211>	642
<212>	DNA

<213> Homo sapien

<400> 119

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ctgtccaaac cttcttctct cctgtcaaca gtggccagcc cccaactat gagatgctca      120
aggaggagca cgaggtggct gtgctggggg cgccccacaa ccctgctccc ccgacgtcca      180
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tcccagtgtc gatcttccag gcctatggat agatcaggag gcatcactga ggccaggagc      480
tctgcccatt acctgtatcc cacgtactcc aacttccatt cctcgccctg cccccggagc      540
cgagtccgtg atcagccctt tatcctcaca cgcttttcta caatggcatt caataaagtg      600
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<210> 120

<211> 603

<212> DNA

<213> Homo sapien

<400> 120

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catgtccacc atgtccacaa tccacacctc ctctactcca gagaccaccc acacctccac      180
agtgttgacc accacagcca ccatgacaag ggccaccaat tccacggcca cacctctctc      240
cactctgggg acgacccgga tctcactga gctgaccaca acagccacta caactgcagc      300
cactggatcc acggccaccc tgtcctccac ccaggggacc acctggatcc tcacagagcc      360
gagcactata gccaccgtga tgggtgccac cggttccacg gccaccgcct cctccactct      420
gggaacagct cacaccccca aagtgggtgac caccatggcc actatgcca cagccactgc      480
ctccacgggt cccagctcgt ccaccgtggg gaccaccgcg acccctgcag tgcctcccag      540
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<210> 121

<211> 178

<212> PRT

<213> Homo sapien

<400> 121

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Cys Ile Pro Ala Arg Arg Asp Leu Val Asp Ser Pro Ala Ser Leu Ala
 20           25           30
Ser Ser Leu Gly Ser Pro Leu Pro Arg Ala Lys Glu Leu Ile Leu Asn
 35           40           45
Asp Leu Pro Ala Ser Thr Pro Ala Ser Lys Ser Cys Asp Ser Ser Pro
 50           55           60
Pro Gln Asp Ala Ser Thr Pro Arg Pro Ser Ser Ala Ser His Leu Cys
 65           70           75           80
Gln Leu Ala Ala Lys Pro Ala Pro Ser Thr Asp Ser Val Ala Leu Arg
 85           90           95
Ser Pro Leu Thr Leu Ser Ser Pro Phe Thr Thr Ser Phe Ser Leu Gly
100          105          110
Ser His Ser Thr Leu Asn Gly Asp Leu Ser Val Pro Ser Ser Tyr Val

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000250"02729660

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 Ser Leu His Leu Ser Pro Gln Val Ser Ser Ser Val Val Tyr Gly Arg
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 Ser Pro Val Met Ala Phe Glu Ser His Pro His Leu Arg Gly Ser Ser
 145 150 155 160
 Val Ser Ser Ser Leu Pro Ser Ile Pro Gly Gly Lys Pro Ala Tyr Ser
 165 170 175
 Phe His

<210> 122
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 122
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 20 25 30
 Asp Gly Lys Val
 35

<210> 123
 <211> 136
 <212> PRT
 <213> Homo sapien

<400> 123
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 20 25 30
 Asp Ala Ser Trp Tyr Leu Pro Lys Leu Gly Arg Asp Ala Arg Arg Glu
 35 40 45
 Phe Glu Glu Arg His Ile Pro Gly Ala Ala Phe Phe Asp Ile Asp Gln
 50 55 60
 Cys Ser Asp Arg Thr Ser Pro Tyr Asp His Met Leu Pro Gly Ala Glu
 65 70 75 80
 His Phe Ala Glu Tyr Ala Gly Arg Leu Gly Val Gly Ala Ala Thr His
 85 90 95
 Val Val Ile Tyr Asp Ala Ser Asp Gln Gly Leu Tyr Ser Ala Pro Arg
 100 105 110
 Val Trp Trp Met Phe Arg Ala Phe Gly His His Ala Val Ser Leu Leu
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 Asp Gly Gly Leu Arg His Trp Leu
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<210> 124
 <211> 133
 <212> PRT
 <213> Homo sapien

<400> 124

000250 "B2T29850

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<211> 195
<212> PRT
<213> Homo sapien
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<210> 126
<211> 509
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<400> 126

<400> 127

<213> Homo sapien

<400> 128

<213> Homo sapien

<400> 129

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cactgtagtg	ggtgttgac	aagttggtat	ggcgtgtgct	atcagcattc	tgggaaagtc	180
tctggctgat	gaacttgctc	ttgtggatgt	tttgggaagat	aagcttaaag	gagaaatgat	240
ggatctgcag	catgggagct	tatttcttca	gacacctaaa	attgtggcag	ataaagatta	300
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<210> 130
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 130						
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gctgcccgtc	cgcgcggcca	ctgcgtcgcg	ggggcgctcc	caggcggggg	cgccccagg	180
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cccaccaacc	tttatggaga	cttcttcacg	ggcgacgcct	acgtcatcct	gaagacagtg	360
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<210> 131
 <211> 509
 <212> DNA
 <213> Homo sapien

<400> 131						
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tgacctcaac	tacatggttt	acatgttcca	atatgattcc	acccatggca	aattccatgg	240
caccgtcaag	gctgagaacg	ggaagcttgt	catcaatgga	aatcccatca	ccatcttcca	300
ggagcgagat	ccctccaaaa	tcaagtgggg	cgatgctggc	gctgagtacg	tcgtggagtc	360
cactggccgt	cttcaccacc	atggagaagg	ctggggctca	tttgcagggg	ggagccaaaa	420
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<210> 132
 <211> 357
 <212> DNA
 <213> Homo sapien

<400> 132						
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gacacatctt	cagtatctat	ggtttgaatt	gggtgcgaca	ggcccttggt	caaggccttg	240
agtggatggg	atggatcaaa	gtcgacactg	cgaacccaac	gtatgccag	ggcttcacag	300
gacgatattg	cttctccctg	gacacctctg	tcagcacggc	atatctgcag	atcagca	357

<210> 133
 <211> 468
 <212> DNA

<213> Homo sapien

<400> 133

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ccgagacctg	ggccggctcc	cactccatga	ggtatttcga	caccgccatg	tcccggcccc	120
gccgcgggga	gccccgcttc	atctcagtgg	gctacgtgga	cgacacgcag	ttcgtgaggt	180
tcgacagcga	cgccgcgagt	ccgagagagg	agccgcgggc	gccgtggata	gagcaggagg	240
ggccggagta	ttgggaccgg	aacacacaga	tcttcaagac	caacacacag	actgaccgag	300
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agagcatgta	cggctgcgac	gtggggccgg	acgggcgcct	cctccgcggg	cataaccagt	420
acgcctacga	cggcaaggat	tacatcgccc	tgaacgagga	cctgcgct		468

<210> 134

<211> 214

<212> DNA

<213> Homo sapien

<400> 134

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ccttccggag	cgggggcagt	cgtagcttca	gcaccgcctc	tgccatcacc	ccgtctgtct	180
cccgcaccag	cttcacctcc	gtgtcccgg	ccgg			214

<210> 135

<211> 355

<212> DNA

<213> Homo sapien

<400> 135

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cacgaccgcg	gccgcggcgc	gcccctcgcc	aagggtggtct	tccgggatcc	gtatcggttt	240
aagaagcggg	cggagctggt	cattgccgcg	gagggcattc	acacggggcca	gtttgtgtat	300
tgcggcaaga	aggccagct	caacattggc	aatgtgctcc	ctgtgggcac	catgc	355

<210> 136

<211> 242

<212> DNA

<213> Homo sapien

<400> 136

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agtgggtgtg	tctcggtctg	ctacaacatc	cacctcccag	cagcctgcct	tggcctccca	180
aagtgccgag	attgcagctc	tctgcccggc	cgccacccct	gtctgggaag	tgaggatgct	240
gt						242

<210> 137

<211> 424

<212> DNA

<213> Homo sapien

<400> 137

000250"02F29250

<211> 483
 <212> DNA
 <213> Homo sapien

<400> 141
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 ccctgtctga ctacaacatc cagaaagagt ccaccctgca cctggtgctc cgtctcagag 120
 gtgggatgca aatcttcgtg aagacactca ctggcaagac catcaccctt gaggtggagc 180
 ccagtgcacac catcgagaac gtcaaagcaa agatccagga caagggaaggc attcctcctg 240
 accagcagag gttgatcttt gccggaaagc agctggaaga tgggcgcacc ctgtctgact 300
 acaacatcca gaaagagtct accctgcacc tgggtgctccg tctcagaggt gggatgcaga 360
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 tga 483

<210> 142
 <211> 500
 <212> DNA
 <213> Homo sapien

<400> 142
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 ctgcgacaac tggatgaaca ttaacctgcg agaagtcac tgcacgtcca gggacgggga 240
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 gcctggcaga caggcgggca 500

<210> 143
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 143
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 ctgcgggctg cttcgggcca gggtcgaccc gagggccagc gcaagcagcg gcaacaggag 180
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 gtttgacaaa catctgcac tacttgggac aaagcaagaa 400

<210> 144
 <211> 243
 <212> DNA
 <213> Homo sapien

<400> 144
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 agtgggtgta tctcggctcg ctacaacatc cacctcccag cagcctgcct tggcctccca 180

aagtgccgag attgcagcct ctgcccggcc gtcaccccgt ctgggaagtg aggagcgttt 240
ctg 243

<210> 145
<211> 450
<212> DNA
<213> Homo sapien

<400> 145
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tgaggtggc cgtggaggca gaggtggcat gggcggaagt gaccgtggtg gcttcaataa 180
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caacaccatc tttgtgcaag gectgggtga gaatgttaca attgagtctg tggctgatta 300
cttcaagcag attggtatta ttaagacaaa caagaaaacg ggacagccca tgattaattt 360
gtacacagac agggaaactg gcaagctgaa gggagaggca acggtctctt ttgatgacct 420
accttcagct aaagcagcct attgactggt 450

<210> 146
<211> 451
<212> DNA
<213> Homo sapien

<400> 146
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cttcagtcgc gagacagacg gggcgacagaa gcggcggatg ctgcactgtg tgcagcgcgc 180
gctgatccgc accagagagc gggcgacgag aagatccaga tcgtgagcca gatggtggag 240
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gcggcagcgc aggtgacaa gcccacacgc aagcgtcac ggcggcagcg caacaacgag 420
aaccgtgaga acgcgtccag caaccacgac c 451

<210> 147
<211> 400
<212> DNA
<213> Homo sapien

<400> 147
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gctgaagga cccatggaca cgtgactcca gtgttctcaa caacatctta gatcaagttg 360
gtttgcacaa catttgcac tacttgggac aaagcaagaa 400

<210> 148
<211> 503
<212> DNA
<213> Homo sapien

<400> 148
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<210> 149
 <211> 1061
 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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tgaagctgtg	caagcaatat	ctatgtttaa	tggccagttg	ctgtttgata	gaccgatgca	720
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c						781

<400> 151

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cagttcccaa	aatgccaag	gaaaagggaag	taccactgga	ggaagaaatg	ctaatacaat	660
cagagaaaaa	aacacaatta	tcgaagactg	aatctgtcaa	agagtcagag	tctctaattg	720
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<210> 152
 <211> 2179
 <212> DNA
 <213> Homo sapien

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accaagtcca	gcttaaagat	ctactgaaaa	ataatagtct	taatgaactg	atgaaactaa	300
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<210> 153


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cgggagtact tcta 2114

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<210> 159
<211> 278
<212> DNA
<213> Homo sapien

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<400> 159
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tgcagaatga gaatcactcc taaaataggt aatggtaaaa attaaattga caattacctc 180
tctctatgca gaaggaaata tcacctatat gacatcatca tcactctattg atacttgctg 240
gcagtgctaa taatggtttt aatgcccaatt tgtaagaa 278

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<210> 160
<211> 848
<212> DNA
<213> Homo sapien

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<400> 160
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catctacagc atgaggttct gcccgtttgc tgagaggacg cgtctagtcc tgaaggccaa 180
gggaatcagg catgaagtca tcaatatcaa cctgaaaaat aagcctgagt ggttctttta 240
gaaaaatccc tttggtctgg tgccagttct ggaaaacagt cagggtcagc tgatctacga 300
gtctgccatc acctgtgagt acctggatga agcataccca gggaagaagc tgttgccgga 360
tgacccttat gagaaagctt gccagaagat gatcttagag ttgttttcta aggtgccatc 420
cttggtagga agctttatta gaagccaaaa taaagaagac tatgctggcc taaaagaaga 480
atttcgtaaa gaatttacca agctagagga ggttctgact aataagaaga cgaccttctt 540
tggtggcaat tctatctcta tgattgatta cctcatctgg ccctggtttg aacggctgga 600
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ggagtcagca ataaagctat gtctgatatt ttctttcact aaaaaaaaaa aaaaaaaaaa 840
aactcgag 848

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<210> 161
<211> 432
<212> DNA

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<213> Homo sapien

<400> 161

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ggaaggggaag	ggccaagta	aagcacagcg	cgggagccta	gagcacatga	agctgatcct	180
gcgtgataag	gagaaggagg	tggaaatgtca	gcaggagcat	atccatgaac	tccaggagct	240
caaagaccag	ctggagcagc	agctccaggg	cctgcacagg	aaggtaggtg	agaccagcct	300
cctcctgtcc	cagcgagagc	aggaaatagt	ggtcctgcag	cagcaactgc	aggaagccag	360
ggaacaagg	gagctgaagg	agcagtcact	tcagagtcaa	ctggatgagg	cccagagagc	420
cctagcccag	ag					432

<210> 162

<211> 433

<212> DNA

<213> Homo sapien

<400> 162

gattcggcac	gagccggagc	tgggttgctc	ctgctcccgt	ctccaagtcc	tggtaacctc	60
ttcaagctgg	gagagggtc	tagtccttg	ttctgaacac	tctggggttc	tcgggtgcag	120
gccgccatga	gcaaacggaa	ggcgccgcag	gagactctca	acgggggaat	caccgacatg	180
ctcacagaac	tcgcaaactt	tgagaagaac	gtgagccaag	ctatccacaa	gtacaatgct	240
tacagaaaag	cagcatctgt	tatagcaaaa	taccacacac	aaataaagag	tggagctgaa	300
gctaagaaat	tgcctggagt	aggaacaaaa	attgctgaaa	agattgatga	gttttttagca	360
actggaaaat	tacgtaaact	ggaaaagatt	cggcaggatg	atacgagttc	atccatcaat	420
ttcctgactc	gag					433

<210> 163

<211> 432

<212> DNA

<213> Homo sapien

<400> 163

gaattcggca	ccagatgagg	ccaacgaggt	gacggacagc	gcgtacatgg	gctccgagag	60
cacctacagt	gagtgtgaga	ccttcacgga	cgaggacacc	agcaccctgg	tgcaccctga	120
gctgcaacct	gaaggggacg	cagacagtgc	cggcggtctg	gccgtgccct	ctgagtgcct	180
ggacgccatg	gaggagcccg	accatggtgc	cctgctgctg	ctcccaggca	ggcctcacc	240
ccatggccag	tctgtcatca	cgggtgatcg	ggcgaggagg	cactttgagg	actacggtga	300
aggcagttag	gcggagctgt	ccccagagac	cctatgcaac	gggcagctgg	gctgcagtga	360
ccccgctttc	ctcacgcca	gtccgacaaa	gcggctctcc	agcaagaagg	tggcaaggta	420
cctgcaccag	tc					432

<210> 164

<211> 395

<212> DNA

<213> Homo sapien

<400> 164

gacacttgaa	tcattgggtga	cgttaaaaat	tttctgtatg	cctggtgtgg	caaaaggaag	60
atgaccccat	cctatgaaat	tagagcagtg	gggaacaaaa	acaggcagaa	attcatgtgt	120
gaggttcagg	tggaaaggta	taattacact	ggcatgggaa	attccaccaa	taaaaaagat	180
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actacagcaa	atgctgaagg	catcttgttg	acatcgaata	tgactttgat	aataaatacc	360

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ggaagatccc	acagtctcag	ccctgcttac	tagtgagaaa	gactggcaag	gtttcctaga	720
gctctactta	cagaacagcc	ctgaggcctg	tgactatggg	ctctgaaggg	ggcaggagtc	780
agcaataaag	ctatgtctga	tatttttcctt	cactaaaaaa	aaaaaaaaaa	aactcgag	838

<210> 171
 <211> 547
 <212> DNA
 <213> Homo sapien

<400> 171						
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cttgacaatg	cagatcttcg	tgaagactct	gactggtaag	accatcaccc	tcgagggtga	120
gcccagtga	accatcgaga	atgtcaaggc	aaagatccaa	gataaggaag	gcatccctcc	180
tgaccagcag	aggctgatct	ttgctggaaa	acagctggaa	gatgggcgca	ccctgtctga	240
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aatcttcgtg	aagacactca	ctggcaagac	catcacccctt	gaggtcgagc	ccagtgaac	360
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gttgatcttt	gccggaaagc	agctggaaga	tgggcgccacc	ctgtctgact	acaacatcca	480
gaaagagtct	accctgcacc	tgggtgctccg	tctcagaggt	gggatgcaga	tcttcgtgaa	540
gaccctg						547

<210> 172
 <211> 608
 <212> DNA
 <213> Homo sapien

<400> 172						
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caccctcatc	tacaatgggtg	ccctgccatg	tcagtgaac	cctcaagggtt	cactgagttc	120
tgagtgaac	cctcatgggtg	gtcagtgcc	gtgcaagcct	ggagtgggtg	ggcgccgctg	180
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ggacccatca	aggccaggtg	gccggtgcca	actgtgtgag	tgcagtggga	acattgaccc	540
aatggatcct	gatgcctgtg	acccccacac	ggggcaatgc	ctgcgctgtt	tacaccacac	600
agagggtc						608

<210> 173
 <211> 543
 <212> DNA
 <213> Homo sapien

<400> 173						
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gctccgggag	ggcaccagga	gcctccgtga	ggctctcgag	gcggagtcgg	cctgggtgcta	180
cctctatggc	acgggctccg	tggctggtgt	ctacctgcc	ggttccaggc	agacactgag	240
catctaccag	gctctcaaga	aagggtgct	gagtgccgag	gtggcccgcc	tgctgctgga	300
ggcacaggca	gccacaggct	tctgtctgga	cccgggtgaag	ggggaacggc	tgactgtgga	360
tgaagctgtg	cggaagggcc	tcgtggggcc	cgaactgcac	gaccgcctgc	tctcggtgta	420
gcggggcggtc	accggctacc	gtgaccctta	caccgagcag	accatctcgc	tcttcagggc	480
catgaagaag	gaactgatcc	ctactgagga	ggccctgcgg	ctgtggatgc	ccagctggcc	540

543

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<210> 174
<211> 548
<212> DNA
<213> Homo sapien
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<400> 174						
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aatgatta						548

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<210> 175
<211> 604
<212> DNA
<213> Homo sapien
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<400> 175						
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cgaggccatc	ctggccatcc	acaaggaggc	ccagaggatc	gctgagagca	accacatcaa	180
gctgtcgggc	agcaaccctt	acaccaccgt	caccccgcaa	atcatcaact	ccaagtggga	240
gaaggtgcag	cagctggtgc	caaaacggga	ccatgccctc	ctggaggagc	agagcaagca	300
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caccaactat	accatggagc	acatccgcgt	gggctgggag	cagctgctca	ccaccattgc	600
ccgg						604

```
<210> 176
<211> 486
<212> DNA
<213> Homo sapien
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<400> 176						
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aggcgaaaga	gtggatggca	acagtctaata	tgtaggatat	gtaataggaa	ctcaacaagc	180
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tgtgaatgaa	gaagcaaccg	gacagttcca	tgtatacccg	gagctgccc	agccctccat	360
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tgaggttcag	aacacaacct	acctgtgggtg	ggtaaattggt	cagagcctcc	cggtcagtc	480
caagcc						486

<210> 177

<211> 387
 <212> DNA
 <213> Homo sapien

<400> 177

gaattcggca	ccagggacag	cagaccagac	agtcacagca	gccttgacaa	aacgttcctg	60
gaactcaagc	tcttctccac	agaggaggac	agagcagaca	gcagagacca	tggagtctcc	120
ctcggcccct	ccccacagat	ggtgcatccc	ctggcagagg	ctcctgctca	cagcctcact	180
tctaaccctt	tggaacccgc	ccaccactgc	caagctcact	attgaatcca	cgccgttcaa	240
tgctgcagag	gggaaggagg	tgcttctact	tgtccacaat	ctgccccagc	atcttttttg	300
ctacagctgg	tacaaaggtg	aaagagtgga	tggcaaccgt	caaattatag	gatatgtaat	360
aggaactcaa	caagctaccc	cagggcc				387

<210> 178
 <211> 440
 <212> DNA
 <213> Homo sapien

<400> 178

gaattcggca	cgaggagaag	cagaaaaaca	aggaatttag	ccagacttta	gaaaatgaga	60
aaaatacctt	actgagtcag	atatcaacaa	aggatgggtga	actaaaaatg	cttcaggagg	120
aagtaaccaa	aatgaacctg	ttaaatacagc	aaatccaaga	agaactctct	agagttacca	180
aactaaagga	gacagcagaa	gaagagaaaag	atgatttgga	agagaggctt	atgaatcaat	240
tagcagaact	taatggaagc	attgggaatt	actgtcagga	tgttacagat	gccccaaataa	300
aaaatgagct	attggaatct	gaaatgaaga	accttaaaaa	gtgtgtgagt	gaattggaag	360
aagaaaagca	gcagttagtc	aaggaaaaaa	ctaaggtgga	atcagaaata	cgaaaggaat	420
atttgagaa	aatacaaggt					440

<210> 179
 <211> 443
 <212> DNA
 <213> Homo sapien

<400> 179

gaattcggca	ccagcggggg	gctacggcgg	cggctacggc	ggcgtcctga	ccgcgtccga	60
cgggctgctg	gcgggcaacg	agaagctaac	catgcagaac	ctcaacgacc	gcctggcctc	120
ctacctggac	aaggtgcgcg	ccctggaggc	ggccaacggc	gagctagagg	tgaagatccg	180
cgactggtac	cagaagcagg	ggcctggggc	ctcccgcgac	tacagccact	actacacgac	240
catccaggac	ctgcgggaca	agattcttgg	tgccaccatt	gagaactcca	ggattgtcct	300
gcagatcgac	aacgcccgtc	tggtctgcaga	tgacttccga	accaagtttg	agacggaaca	360
ggctctgcgc	atgagcgtgg	aggccgacat	caacggcctg	cgcagggtgc	tggatgagct	420
gaccctggcc	aggaccgacc	tgg				443

<210> 180
 <211> 403
 <212> DNA
 <213> Homo sapien

<400> 180

gaattcggca	cgaggttatg	agagtcgact	tcaatgttcc	tatgaagaac	aaccagataa	60
caaacaacca	gaggattaag	gctgctgtcc	caagcatcaa	attctgcttg	gacaatggag	120
ccaagtcggt	agtccttatg	agccacctag	gccggcctga	tggtgtgccc	atgcctgaca	180
agtactcctt	agagccagtt	gctgtagaac	tcagatctct	gctgggcaag	gatgttctgt	240
tcttgaagga	ctgtgtaggc	ccagaagtgg	agaaagcctg	tgccaaccga	gctgctgggt	300

<210> 183
 <211> 255
 <212> PRT
 <213> Homo sapien

<400> 183
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Pro
 1 5 10 15
 Lys Met Glu Glu Glu Ser Gly Ala Pro Cys Val Pro Ser Gly Asn Gly
 20 25 30
 Ala Pro Gly Pro Lys Gly Glu Glu Arg Pro Thr Gln Asn Glu Lys Arg
 35 40 45
 Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr Ser
 50 55 60
 Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe Asp
 65 70 75 80
 Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly Glu
 85 90 95
 Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg Gly
 100 105 110
 Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala Ala
 115 120 125
 Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val Lys
 130 135 140
 Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Ala Gly
 145 150 155 160
 Arg Leu Gly Ser Thr Val Phe Val Ala Asn Leu Asp Tyr Lys Val Gly
 165 170 175
 Trp Lys Lys Leu Lys Glu Val Phe Ser Met Ala Gly Val Val Val Arg
 180 185 190
 Ala Asp Ile Leu Glu Asp Lys Asp Gly Lys Ser Arg Gly Ile Gly Ile
 195 200 205
 Val Thr Phe Glu Gln Ser Ile Glu Ala Val Gln Ala Ile Ser Met Phe
 210 215 220
 Asn Gly Gln Leu Leu Phe Asp Arg Pro Met His Val Lys Met Asp Glu
 225 230 235 240
 Arg Ala Leu Pro Lys Gly Asp Phe Phe Pro Pro Glu Arg His Ser
 245 250 255

<210> 184
 <211> 188
 <212> PRT
 <213> Homo sapien

<400> 184
 Leu Ser Gly Ser Cys Ile Arg Arg Glu Gln Thr Pro Glu Lys Glu Lys
 1 5 10 15
 Gln Val Val Leu Phe Glu Glu Ala Ser Trp Thr Cys Thr Pro Ala Cys
 20 25 30
 Gly Asp Glu Pro Arg Thr Val Ile Leu Leu Ser Ser Met Leu Ala Asp
 35 40 45
 His Arg Leu Lys Leu Glu Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu
 50 55 60
 His Leu Asn Pro Asp Gln Leu Glu Ala Val Glu Lys Tyr Glu Glu Val

000250"02729960

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<210> 185
<211> 746
<212> PRT
<213> Homo sapien
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	<400> 185															
Asp 1	Lys	His	Leu	Lys 5	Asp	Leu	Leu	Ser	Lys 10	Leu	Leu	Asn	Ser	Gly 15	Tyr	
Phe	Glu	Ser	Ile	Pro	Val	Pro	Lys	Asn 25	Ala	Lys	Glu	Lys	Glu	Val	Pro	
			20										30			
Leu	Glu	Glu	Glu	Met	Leu	Ile	Gln	Ser	Glu	Lys	Lys	Thr	Gln	Leu	Ser	
			35				40					45				
Lys	Thr	Glu	Ser	Val	Lys	Glu	Ser	Glu	Ser	Leu	Met	Glu	Phe	Ala	Gln	
	50					55					60					
Pro 65	Glu	Ile	Gln	Pro	Gln	Glu	Phe	Leu	Asn	Arg	Tyr	Met	Thr	Glu	80	
					70					75						
Val	Asp	Tyr	Ser	Asn	Lys	Gln	Gly	Glu	Glu	Gln	Pro	Trp	Glu	Ala	Asp	
				85					90				95			
Tyr	Ala	Arg	Lys	Pro	Asn	Leu	Pro	Lys	Arg	Trp	Asp	Met	Leu	Thr	Glu	
			100					105					110			
Pro	Asp	Gly	Gln	Glu	Lys	Lys	Gln	Glu	Ser	Phe	Lys	Ser	Trp	Glu	Ala	
		115					120					125				
Ser	Gly	Lys	His	Gln	Glu	Val	Ser	Lys	Pro	Ala	Val	Ser	Leu	Glu	Gln	
	130					135					140					
Arg 145	Lys	Gln	Asp	Thr	Ser	Lys	Leu	Arg	Ser	Thr	Leu	Pro	Glu	Glu	Gln	
					150					155					160	
Lys	Lys	Gln	Glu	Ile	Ser	Lys	Ser	Lys	Pro	Ser	Pro	Ser	Gln	Trp	Lys	
				165					170					175		
Gln	Asp	Thr	Pro	Lys	Ser	Lys	Ala	Gly	Tyr	Val	Gln	Glu	Glu	Gln	Lys	
			180					185					190			
Lys	Gln	Glu	Thr	Pro	Lys	Leu	Trp	Pro	Val	Gln	Leu	Gln	Lys	Glu	Gln	
		195					200					205				
Asp	Pro	Lys	Lys	Gln	Thr	Pro	Lys	Ser	Trp	Thr	Pro	Ser	Met	Gln	Ser	
	210					215					220					
Glu 225	Gln	Asn	Thr	Thr	Lys	Ser	Trp	Thr	Thr	Pro	Met	Cys	Glu	Glu	Gln	
					230					235					240	
Asp	Ser	Lys	Gln	Pro	Glu	Thr	Pro	Lys	Ser	Trp	Glu	Asn	Asn	Val	Glu	
				245					250					255		

Val Leu Val Ser Ala Tyr Ala Asn Asp Gly Ala Pro Asp His Glu Thr
 690 695 700
 Ala Ser Asn His Ala Ile Leu Gln Leu Phe Gln Gly Asp Gln Ile Trp
 705 710 715 720
 Leu Arg Leu His Arg Gly Ala Ile Tyr Gly Ser Ser Trp Lys Tyr Ser
 725 730 735
 Thr Phe Ser Gly Tyr Leu Leu Tyr Gln Asp
 740 745

<210> 186
 <211> 705
 <212> PRT
 <213> Homo sapien

<400> 186
 Ala Leu Leu Asn Val Arg Gln Pro Pro Ser Thr Thr Thr Phe Val Leu
 1 5 10 15
 Asn Gln Ile Asn His Leu Pro Pro Leu Gly Ser Thr Ile Val Met Thr
 20 25 30
 Lys Thr Pro Pro Val Thr Thr Asn Arg Gln Thr Ile Thr Leu Thr Lys
 35 40 45
 Phe Ile Gln Thr Thr Ala Ser Thr Arg Pro Ser Val Ser Ala Pro Thr
 50 55 60
 Val Arg Asn Ala Met Thr Ser Ala Pro Ser Lys Asp Gln Val Gln Leu
 65 70 75 80
 Lys Asp Leu Leu Lys Asn Asn Ser Leu Asn Glu Leu Met Lys Leu Lys
 85 90 95
 Pro Pro Ala Asn Ile Ala Gln Pro Val Ala Thr Ala Ala Thr Asp Val
 100 105 110
 Ser Asn Gly Thr Val Lys Lys Glu Ser Ser Asn Lys Glu Gly Ala Arg
 115 120 125
 Met Trp Ile Asn Asp Met Lys Met Arg Ser Phe Ser Pro Thr Met Lys
 130 135 140
 Val Pro Val Val Lys Glu Asp Asp Glu Pro Glu Glu Glu Asp Glu Glu
 145 150 155 160
 Glu Met Gly His Ala Glu Thr Tyr Ala Glu Tyr Met Pro Ile Lys Leu
 165 170 175
 Lys Ile Gly Leu Arg His Pro Asp Ala Val Val Glu Thr Ser Ser Leu
 180 185 190
 Ser Ser Val Thr Pro Pro Asp Val Trp Tyr Lys Thr Ser Ile Ser Glu
 195 200 205
 Glu Thr Ile Asp Asn Gly Trp Leu Ser Ala Leu Gln Leu Glu Ala Ile
 210 215 220
 Thr Tyr Ala Ala Gln Gln His Glu Thr Phe Leu Pro Asn Gly Asp Arg
 225 230 235 240
 Ala Gly Phe Leu Ile Gly Asp Gly Ala Gly Val Gly Lys Gly Arg Thr
 245 250 255
 Ile Ala Gly Ile Ile Tyr Glu Asn Tyr Leu Leu Ser Arg Lys Arg Ala
 260 265 270
 Leu Trp Phe Ser Val Ser Asn Asp Leu Lys Tyr Asp Ala Glu Arg Asp
 275 280 285
 Leu Arg Asp Ile Gly Ala Lys Asn Ile Leu Val His Ser Leu Asn Lys
 290 295 300
 Phe Lys Tyr Gly Lys Ile Ser Ser Lys His Asn Gly Ser Val Lys Lys

09667170"092000

<213> Homo sapien

Glu	Ser	Pro	Arg	His	Arg	Gly	Glu	Gly	Gly	Glu	Trp	Gly	Pro	Gly	
1				5				10					15		
Val	Pro	Arg	Glu	Arg	Arg	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Asp	Thr
			20					25					30		
Pro	Lys	Glu	Gly	Gly	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Glu	Val	Pro
		35					40					45			
Arg	Gly	Arg	Gly	Glu	Gly	Ala	Gly	Glu	Trp	Gly	Pro	Asp	Thr	Pro	Lys
	50					55					60				
Glu	Arg	Gly	Gln	Gly	Val	Arg	Glu	Trp	Gly	Pro	Glu	Ile	Pro	Gln	Glu
65				70					75					80	
His	Gly	Glu	Ala	Thr	Arg	Asp	Trp	Ala	Leu	Glu	Ser	Pro	Arg	Ala	Leu
				85				90						95	
Gly	Glu	Asp	Ala	Arg	Glu	Leu	Gly	Ser	Ser	Pro	His	Asp	Arg	Gly	Ala
			100				105						110		
Ser	Pro	Arg	Asp	Leu	Ser	Gly	Glu	Ser	Pro	Cys	Thr	Gln	Arg	Ser	Gly
		115					120					125			
Leu	Leu	Pro	Glu	Arg	Arg	Gly	Asp	Ser	Pro	Trp	Pro	Pro	Trp	Pro	Ser
	130					135					140				
Pro	Gln	Glu	Arg	Asp	Ala	Gly	Thr	Arg	Asp	Arg	Glu	Glu	Ser	Pro	Arg
145				150					155					160	
Asp	Trp	Gly	Gly	Ala	Glu	Ser	Pro	Arg	Gly	Trp	Glu	Ala	Gly	Pro	Arg
				165					170					175	
Glu	Trp	Gly	Pro	Ser	Pro	Ser	Gly	His	Gly	Asp	Gly	Pro	Arg	Arg	Arg
			180					185					190		
Pro	Arg	Lys	Arg	Arg	Gly	Arg	Lys	Gly	Arg	Met	Gly	Arg	Gln	His	Glu
		195					200					205			
Ala	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Thr	Gly	Gly	Thr	Ala
	210					215					220				
Glu	Glu	Ala	Gly	Ala	Ser	Ala	Pro	Glu	Ser	Gln	Ala	Gly	Gly	Gly	Pro
225				230						235				240	
Arg	Gly	Arg	Ala	Arg	Gly	Pro	Arg	Gln	Gln	Gly	Arg	Arg	Arg	His	Gly
				245					250					255	
Thr	Gln	Arg	Arg	Arg	Gly	Pro	Pro	Gln	Ala	Arg	Glu	Glu	Gly	Pro	Arg
			260					265					270		
Asp	Ala	Thr	Thr	Ile	Leu	Gly	Leu	Gly	Thr	Pro	Ser	Gly	Glu	Gln	Arg
		275					280					285			
Ala	Asp	Gln	Ser	Gln	Ala	Leu	Pro	Ala	Leu	Ala	Gly	Ala	Ala	Ala	Ala
	290					295					300				
His	Ala	His	Ala	Ile	Pro	Gly	Ala	Gly	Pro	Ala	Ala	Ala	Pro	Val	Gly
305				310						315				320	
Gly	Arg	Gly	Arg	Arg	Gly	Gly	Trp	Arg	Gly	Gly	Arg	Arg	Gly	Gly	Ser
				325					330					335	
Ala	Gly	Ala	Gly	Gly	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Arg	Gly	Arg	Gly
			340					345					350		
Gly	Gly	Arg	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Gly					

Arg Gly Arg Arg Ala Arg Gly Gln Arg Ala Gly Glu Glu Ala Gln Asp
 405 410 415
 Gly Leu Leu Pro Arg Gly Arg Asp Arg Leu Pro Leu Arg Pro Gly Asp
 420 425 430
 Ala Asn Gln Arg Ala Glu Arg Pro Gly Pro Pro Arg Gly Gly His Gly
 435 440 445
 Pro Val Asn Ala Ser Ser Ala Pro Asp Thr Ser Pro Pro Arg His Pro
 450 455 460
 Arg Arg Trp Val Ser Gln Gln Arg Gln Arg Leu Trp Arg Gln Phe Arg
 465 470 475 480
 Val Gly Gly Gly Phe Pro Pro Pro Pro Ser Arg Pro Pro Ala Val
 485 490 495
 Leu Leu Pro Leu Leu Arg Leu Ala Cys Ala Gly Asp Pro Gly Ala Thr
 500 505 510
 Arg Pro Gly Pro Arg Arg Pro Ala Arg Arg Pro Arg Gly Glu Leu Ile
 515 520 525
 Pro Arg Arg Pro Asp Pro Ala Ala Pro Ser Glu Glu Gly Leu Arg Met
 530 535 540
 Glu Ser Ser Val Asp Asp Gly Ala Thr Ala Thr Thr Ala Asp Ala Ala
 545 550 555 560
 Ser Gly Glu Ala Pro Glu Ala Gly Pro Ser Pro Ser His Ser Pro Thr
 565 570 575
 Met Cys Gln Thr Gly Gly Pro Gly Pro Pro Pro Pro Gln Pro Pro Arg
 580 585 590
 Trp Leu Pro
 595

<210> 188
 <211> 376
 <212> PRT
 <213> Homo sapien

<400> 188
 Glu Met Arg Lys Phe Asp Val Pro Ser Met Glu Ser Thr Leu Asn Gln
 1 5 10 15
 Pro Ala Met Leu Glu Thr Leu Tyr Ser Asp Pro His Tyr Arg Ala His
 20 25 30
 Phe Pro Asn Pro Arg Pro Asp Thr Asn Lys Asp Val Tyr Lys Val Leu
 35 40 45
 Pro Glu Ser Lys Lys Ala Pro Gly Ser Gly Ala Val Phe Glu Arg Asn
 50 55 60
 Gly Pro His Ala Ser Ser Ser Gly Val Leu Pro Leu Gly Leu Gln Pro
 65 70 75 80
 Ala Pro Gly Leu Ser Lys Ser Leu Ser Ser Gln Val Trp Gln Pro Ser
 85 90 95
 Pro Asp Pro Trp His Pro Gly Glu Gln Ser Cys Glu Leu Ser Thr Cys
 100 105 110
 Arg Gln Gln Leu Glu Leu Ile Arg Leu Gln Met Glu Gln Met Gln Leu
 115 120 125
 Gln Asn Gly Ala Met Cys His His Pro Ala Ala Phe Ala Pro Leu Leu
 130 135 140
 Pro Thr Leu Glu Pro Ala Gln Trp Leu Ser Ile Leu Asn Ser Asn Glu
 145 150 155 160
 His Leu Leu Lys Glu Lys Glu Leu Leu Ile Asp Lys Gln Arg Lys His

000250"02729960

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<210> 189
<211> 160
<212> PRT
<213> Homo sapien
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	<400>						189											
Met 1	Leu	Glu	Ala	His 5	Arg	Arg	Gln	Arg	His 10	Pro	Phe	Leu	Leu	Leu	Gly			
Thr	Thr	Ala	Asn 20	Arg	Thr	Gln	Ser	Leu 25	Asn	Tyr	Gly	Cys	Ile 30	Val	Glu			
Asn	Pro	Gln 35	Thr	His	Glu	Val	Leu 40	His	Tyr	Val	Glu	Lys 45	Pro	Ser	Thr			
Phe 50	Ile	Ser	Asp	Ile	Ile	Asn 55	Cys	Gly	Ile	Tyr	Leu 60	Phe	Ser	Pro	Glu			
Ala 65	Leu	Lys	Pro	Leu	Arg 70	Asp	Val	Phe	Gln	Arg	Asn	Gln	Gln	Asp	Gly 80			
Gln	Leu	Glu	Asp	Ser 85	Pro	Gly	Leu	Trp	Pro 90	Gly	Ala	Gly	Thr	Ile	Arg			
Leu	Glu	Gln	Asp 100	Val	Phe	Ser	Ala	Leu 105	Ala	Gly	Gln	Gly	Gln	Ile	Tyr			
Val	His 115	Leu	Thr	Asp	Gly	Ile	Trp	Ser 120	Gln	Ile	Lys	Ser 125	Ala	Gly	Ser			
Ala 130	Leu	Tyr	Ala	Ser	Arg	Leu 135	Tyr	Leu	Ser	Arg	Tyr 140	Gln	Asp	Thr	His			
Pro 145	Glu	Arg	Leu	Ala 150	Lys	His	Thr	Pro	Gly	Gly 155	Pro	Trp	Ile	Arg	Gly 160			

<210> 190
 <211> 146
 <212> PRT
 <213> Homo sapien

<400> 190
 Met Asp Pro Arg Ala Ser Leu Leu Leu Leu Gly Asn Val Tyr Ile His
 1 5 10 15
 Pro Thr Ala Lys Val Ala Pro Ser Ala Val Leu Gly Pro Asn Val Ser
 20 25 30
 Ile Gly Lys Gly Val Thr Val Gly Glu Gly Val Arg Leu Arg Glu Ser
 35 40 45
 Ile Val Leu His Gly Ala Thr Leu Gln Glu His Thr Cys Val Leu His
 50 55 60
 Ser Ile Val Gly Trp Gly Ser Thr Val Gly Arg Trp Ala Arg Val Glu
 65 70 75 80
 Gly Thr Pro Ser Asp Pro Asn Pro Asn Asp Pro Arg Ala Arg Met Asp
 85 90 95
 Ser Glu Ser Leu Phe Lys Asp Gly Lys Leu Leu Pro Ala Ile Thr Ile
 100 105 110
 Leu Gly Cys Arg Val Arg Ile Pro Ala Glu Val Leu Ile Leu Asn Ser
 115 120 125
 Ile Val Leu Pro His Lys Glu Leu Ser Arg Ser Phe Thr Asn Gln Ile
 130 135 140
 Ile Leu
 145

<210> 191
 <211> 704
 <212> PRT
 <213> Homo sapien

<400> 191
 Glu Gly Gly Cys Ala Ala Gly Arg Gly Arg Glu Leu Glu Pro Glu Leu
 1 5 10 15
 Glu Pro Gly Pro Gly Pro Gly Ser Ala Leu Glu Pro Gly Glu Glu Phe
 20 25 30
 Glu Ile Val Asp Arg Ser Gln Leu Pro Gly Pro Gly Asp Leu Arg Ser
 35 40 45
 Ala Thr Arg Pro Arg Ala Ala Glu Gly Trp Ser Ala Pro Ile Leu Thr
 50 55 60
 Leu Ala Arg Arg Ala Thr Gly Asn Leu Ser Ala Ser Cys Gly Ser Ala
 65 70 75 80
 Leu Arg Ala Ala Ala Gly Leu Gly Gly Gly Asp Ser Gly Asp Gly Thr
 85 90 95
 Ala Arg Ala Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala Asn Leu
 100 105 110
 Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 115 120 125
 Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
 130 135 140
 Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
 145 150 155 160

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			260					265					270				
Cys	Val	Glu	Val	Leu	Pro	Asp	Arg	Asp	Gly	Lys	Arg	Cys	Met	Phe	Cys		
		275					280					285					
Val	Lys	Thr	Ala	Thr	Arg	Thr	Tyr	Glu	Met	Ser	Ala	Ser	Asp	Thr	Arg		
	290					295					300						
Gln	Arg	Gln	Glu	Trp	Thr	Ala	Ala	Ile	Gln	Met	Ala	Ile	Arg	Leu	Gln		
305					310					315					320		
Ala	Glu	Gly	Lys	Thr	Ser	Leu	His	Lys	Asp	Leu							
				325					330								

<210> 193

<211> 475

<212> PRT

<213> Homo sapien

<400> 193

Lys	Asn	Ser	Pro	Leu	Leu	Ser	Val	Ser	Ser	Gln	Thr	Ile	Thr	Lys	Glu		
1				5				10						15			
Asn	Asn	Arg	Asn	Val	His	Leu	Glu	His	Ser	Glu	Gln	Asn	Pro	Gly	Ser		
		20					25						30				
Ser	Ala	Gly	Asp	Thr	Ser	Ala	Ala	His	Gln	Val	Val	Leu	Gly	Glu	Asn		
	35					40						45					
Leu	Ile	Ala	Thr	Ala	Leu	Cys	Leu	Ser	Gly	Ser	Gly	Ser	Gln	Ser	Asp		
	50					55					60						
Leu	Lys	Asp	Val	Ala	Ser	Thr	Ala	Gly	Glu	Glu	Gly	Asp	Thr	Ser	Leu		
65					70				75						80		
Arg	Glu	Ser	Leu	His	Pro	Val	Thr	Arg	Ser	Leu	Lys	Ala	Gly	Cys	His		
				85					90					95			
Thr	Lys	Gln	Leu	Ala	Ser	Arg	Asn	Cys	Ser	Glu	Glu	Lys	Ser	Pro	Gln		
		100					105						110				
Thr	Ser	Ile	Leu	Lys	Glu	Gly	Asn	Arg	Asp	Thr	Ser	Leu	Asp	Phe	Arg		
	115					120						125					
Pro	Val	Val	Ser	Pro	Ala	Asn	Gly	Val	Glu	Gly	Val	Arg	Val	Asp	Gln		
	130					135					140						
Asp	Asp	Asp	Gln	Asp	Ser	Ser	Ser	Leu	Lys	Leu	Ser	Gln	Asn	Ile	Ala		
145					150				155					160			
Val	Gln	Thr	Asp	Phe	Lys	Thr	Ala	Asp	Ser	Glu	Val	Asn	Thr	Asp	Gln		
				165					170					175			
Asp	Ile	Glu	Lys	Asn	Leu	Asp	Lys	Met	Met	Thr	Glu	Arg	Thr	Leu	Leu		
			180				185						190				
Lys	Glu	Arg	Tyr	Gln	Glu	Val	Leu	Asp	Lys	Gln	Arg	Gln	Val	Glu	Asn		
	195						200					205					
Gln	Leu	Gln	Val	Gln	Leu	Lys	Gln	Leu	Gln	Gln	Arg	Arg	Glu	Glu	Glu		
	210					215					220						
Met	Lys	Asn	His	Gln	Glu	Ile	Leu	Lys	Ala	Ile	Gln	Asp	Val	Thr	Ile		
225					230					235					240		
Lys	Arg	Glu	Glu	Thr	Lys	Lys	Lys	Ile	Glu	Lys	Glu	Lys	Lys	Glu	Phe		
				245					250					255			
Leu	Gln	Lys	Glu	Gln	Asp	Leu	Lys	Ala	Glu	Ile	Glu	Lys	Leu	Cys	Glu		
		260						265					270				
Lys	Gly	Arg	Arg	Glu	Val	Trp	Glu	Met	Glu	Leu	Asp	Arg	Leu	Lys	Asn		
	275						280					285					
Gln	Asp	Gly	Glu	Ile	Asn	Arg	Asn	Ile	Met	Glu	Glu	Thr	Glu	Arg	Ala		
	290					295						300					

000000"0279960


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<210> 194
<211> 241
<212> PRT
<213> Homo sapien
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			<400>	194												
Met	Ser	Gly	Glu	Ser	Ala	Arg	Ser	Leu	Gly	Lys	Gly	Ser	Ala	Pro	Pro	
1				5					10					15		
Gly	Pro	Val	Pro	Glu	Gly	Ser	Ile	Arg	Ile	Tyr	Ser	Met	Arg	Phe	Cys	
			20					25					30			
Pro	Phe	Ala	Glu	Arg	Thr	Arg	Leu	Val	Leu	Lys	Ala	Lys	Gly	Ile	Arg	
		35					40					45				
His	Glu	Val	Ile	Asn	Ile	Asn	Leu	Lys	Asn	Lys	Pro	Glu	Trp	Phe	Phe	
	50					55					60					
Lys	Lys	Asn	Pro	Phe	Gly	Leu	Val	Pro	Val	Leu	Glu	Asn	Ser	Gln	Gly	
65					70					75					80	
Gln	Leu	Ile	Tyr	Glu	Ser	Ala	Ile	Thr	Cys	Glu	Tyr	Leu	Asp	Glu	Ala	
				85					90					95		
Tyr	Pro	Gly	Lys	Lys	Leu	Leu	Pro	Asp	Asp	Pro	Tyr	Glu	Lys	Ala	Cys	
			100					105					110			
Gln	Lys	Met	Ile	Leu	Glu	Leu	Phe	Ser	Lys	Val	Pro	Ser	Leu	Val	Gly	
		115					120					125				
Ser	Phe	Ile	Arg	Ser	Gln	Asn	Lys	Glu	Asp	Tyr	Ala	Gly	Leu	Lys	Glu	
	130					135					140					
Glu	Phe	Arg	Lys	Glu	Phe	Thr	Lys	Leu	Glu	Glu	Val	Leu	Thr	Asn	Lys	
145					150					155					160	
Lys	Thr	Thr	Phe	Phe	Gly	Gly	Asn	Ser	Ile	Ser	Met	Ile	Asp	Tyr	Leu	
				165					170					175		
Ile	Trp	Pro	Trp	Phe	Glu	Arg	Leu	Glu	Ala	Met	Lys	Leu	Asn	Glu	Cys	
			180					185					190			
Val	Asp	His	Thr	Pro	Lys	Leu	Lys	Leu	Trp	Met	Ala	Ala	Met	Lys	Glu	

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<210> 195
<211> 138
<212> PRT
<213> Homo sapien
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<210> 196
<211> 102
<212> PRT
<213> Homo sapien
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[illegible]

<400> 197

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<210> 198
<211> 100
<212> PRT
<213> Homo sapien
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<400> 198

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<210> 199
<211> 127
<212> PRT
<213> Homo sapien
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<400> 199

Met Val Lys Glu Thr Thr Tyr Tyr Asp Val Leu Gly Val Lys Pro Asn
1 5 10 15

Ala Thr Gln Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala Leu Lys
 20 25 30
 Tyr His Pro Asp Lys Asn Pro Asn Glu Gly Glu Lys Phe Lys Gln Ile
 35 40 45
 Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys Arg Glu Leu Tyr
 50 55 60
 Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly Gly Ala Gly Gly Gly
 65 70 75 80
 Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe Phe Gly Gly Gly Gly
 85 90 95
 Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val Val His Gln Leu Ser
 100 105 110
 Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr Arg Lys Leu Ala
 115 120 125

<210> 200
 <211> 90
 <212> PRT
 <213> Homo sapien

<400> 200
 Met Ala Cys Pro Leu Asp Gln Ala Ile Gly Leu Leu Val Ala Ile Phe
 1 5 10 15
 His Lys Tyr Ser Gly Arg Glu Gly Asp Lys His Thr Leu Ser Lys Lys
 20 25 30
 Glu Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Ile Gly Ser Lys Leu
 35 40 45
 Gln Asp Ala Glu Ile Ala Arg Leu Met Glu Asp Leu Asp Arg Asn Lys
 50 55 60
 Asp Gln Glu Val Asn Phe Gln Glu Tyr Val Thr Phe Leu Gly Ala Leu
 65 70 75 80
 Ala Leu Ile Tyr Asn Glu Ala Leu Lys Gly
 85 90

<210> 201
 <211> 120
 <212> PRT
 <213> Homo sapien

<400> 201
 Met Glu Thr Pro Ser Gln Arg Arg Ala Thr Arg Ser Gly Ala Gln Ala
 1 5 10 15
 Ser Ser Thr Pro Leu Ser Pro Thr Arg Ile Thr Arg Leu Gln Glu Lys
 20 25 30
 Glu Asp Leu Gln Glu Leu Asn Asp Arg Leu Ala Val Tyr Ile Asp Arg
 35 40 45
 Val Arg Ser Leu Glu Thr Glu Asn Ala Gly Leu Arg Leu Arg Ile Thr
 50 55 60
 Glu Ser Glu Glu Val Val Ser Arg Glu Val Ser Gly Ile Lys Ala Ala
 65 70 75 80
 Tyr Glu Ala Glu Leu Gly Asp Ala Arg Lys Thr Leu Asp Ser Val Ala
 85 90 95
 Lys Glu Arg Ala Arg Leu Gln Leu Glu Leu Ser Lys Val Arg Glu Glu
 100 105 110

000260"027960

```
<210> 202
<211> 177
<212> PRT
<213> Homo sapien
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<210> 203
<211> 164
<212> PRT
<213> Homo sapien
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<400> 203															
Met 1	Arg	Leu	Ala	Val 5	Gly	Ala	Leu	Leu	Val 10	Cys	Ala	Val	Leu	Gly 15	Leu
Cys	Leu	Ala	Val 20	Pro	Asp	Lys	Thr	Val 25	Arg	Trp	Cys	Ala	Val 30	Ser	Glu
His	Glu	Ala	Thr 35	Lys	Cys	Gln	Ser 40	Phe	Arg	Asp	His	Met 45	Lys	Ser	Val
Ile	Pro	Ser	Asp 50	Gly	Pro	Ser 55	Val	Ala	Cys	Val	Lys 60	Lys	Ala	Ser	Tyr
Leu 65	Asp	Cys	Ile	Arg 70	Ala	Ile	Ala	Ala	Asn 75	Glu	Ala	Asp	Ala	Val	Thr 80
Leu	Asp	Ala	Gly 85	Leu	Val	Tyr	Asp	Ala 90	Tyr	Leu	Ala	Pro	Asn 95	Asn	Leu
Lys	Pro	Val	Val 100	Ala	Glu	Phe	Tyr	Gly 105	Ser	Lys	Glu	Asp	Pro 110	Gln	Thr

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<210> 204
<211> 241
<212> PRT
<213> Homo sapien
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<210> 205
<211> 160
<212> PRT
<213> Homo sapien
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<400> 205

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<210> 206
<211> 197
<212> PRT
<213> Homo sapien
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[illegible]

<400> 207

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<210> 208
<211> 177
<212> PRT
<213> Homo sapien
```

<400> 208

Met	Ala	Ala	Gly	Val	Glu	Ala	Ala	Ala	Glu	Val	Ala	Ala	Thr	Glu	Ile
1				5					10					15	
Lys	Met	Glu	Glu	Glu	Ser	Gly	Ala	Pro	Gly	Val	Pro	Ser	Gly	Asn	Gly
			20					25					30		
Ala	Pro	Gly	Pro	Lys	Gly	Glu	Gly	Glu	Arg	Pro	Ala	Gln	Asn	Glu	Lys
		35					40					45			
Arg	Lys	Glu	Lys	Asn	Ile	Lys	Arg	Gly	Gly	Asn	Arg	Phe	Glu	Pro	Tyr
	50					55					60				
Ala	Asn	Pro	Thr	Lys	Arg	Tyr	Arg	Ala	Phe	Ile	Thr	Asn	Ile	Pro	Phe
65					70					75					80
Asp	Val	Lys	Trp	Gln	Ser	Leu	Lys	Asp	Leu	Val	Lys	Glu	Lys	Val	Gly
				85					90					95	
Glu	Val	Thr	Tyr	Val	Glu	Leu	Leu	Met	Asp	Ala	Glu	Gly	Lys	Ser	Arg
			100					105					110		
Gly	Cys	Ala	Val	Val	Glu	Phe	Lys	Met	Glu	Glu	Ser	Met	Lys	Lys	Ala
		115					120					125			
Ala	Glu	Val	Leu	Asn	Lys	His	Ser	Leu	Ser	Gly	Arg	Pro	Leu	Lys	Val
	130					135					140				
Lys	Glu	Asp	Pro	Asp	Gly	Glu	His	Ala	Arg	Arg	Ala	Met	Gln	Lys	Val


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<210> 211
<211> 92
<212> PRT
<213> Homo sapien
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<210> 212
<211> 142
<212> PRT
<213> Homo sapien
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<400> 212															
Glu 1	Lys	Gln	Lys	Asn 5	Lys	Glu	Phe	Ser	Gln 10	Thr	Leu	Glu	Asn 15	Glu	Lys
Asn	Thr	Leu	Leu	Ser	Gln	Ile	Ser	Thr	Lys 25	Asp	Gly	Glu	Leu 30	Lys	Met
Leu	Gln	Glu	Glu	Val	Thr	Lys	Met	Asn	Leu	Leu	Asn	Gln	Gln	Ile	Gln
Glu	Glu	Leu	Ser	Arg	Val	Thr	Lys	Leu	Lys	Glu	Thr	Ala	Glu	Glu	Glu
Lys 65	Asp	Asp	Leu	Glu	Arg	Leu	Met	Asn	Gln	Leu	Ala	Glu	Leu	Asn 80	
Gly	Ser	Ile	Gly	Asn 85	Tyr	Cys	Gln	Asp	Val 90	Thr	Asp	Ala	Gln	Ile	Lys
Asn	Glu	Leu	Leu	Glu	Ser	Glu	Met	Lys	Asn 105	Leu	Lys	Lys	Cys 110	Val	Ser
Glu	Leu	Glu	Glu	Glu	Lys	Gln	Gln	Leu	Val	Lys	Glu	Lys	Thr	Lys	Val
Glu	Ser	Glu	Ile	Arg	Lys	Glu	Tyr	Leu	Glu	Lys	Ile	Gln	Gly		

<213> Homo sapien

[illegible]

<211> 527

<213> Hom

Gln 1	Arg	Ala	Pro	Gly 5	Ile	Glu	Glu	Lys	Ala 10	Ala	Glu	Asn	Gly	Ala 15	Leu
Gly	Ser	Pro	Glu	Arg 20	Glu	Glu	Lys	Val 25	Leu	Glu	Asn	Gly	Glu 30	Leu	Thr
Pro	Pro	Arg	Arg	Glu	Glu	Lys	Ala 40	Leu	Glu	Asn	Gly	Glu 45	Leu	Arg	Ser
Pro	Glu	Ala	Gly	Glu	Lys	Val 55	Leu	Val	Asn	Gly	Gly 60	Leu	Thr	Pro	Pro
Lys 65	Ser	Glu	Asp	Lys 70	Val	Ser	Glu	Asn	Gly	Gly 75	Leu	Arg	Phe	Pro	Arg 80
Asn	Thr	Glu	Arg	Pro 85	Pro	Glu	Thr	Gly	Pro 90	Trp	Arg	Ala	Pro	Gly 95	Pro
Trp	Glu	Lys	Thr 100	Pro	Glu	Ser	Trp	Gly 105	Pro	Ala	Pro	Thr	Ile 110	Gly	Glu
Pro	Ala	Pro	Glu	Thr 115	Ser	Leu	Glu	Arg 120	Ala	Pro	Ala	Pro 125	Ser	Ala	Val
Val	Ser	Ser	Arg	Asn	Gly	Gly 135	Glu	Thr	Ala	Pro	Gly 140	Pro	Leu	Gly	Pro
Ala 145	Pro	Lys	Asn	Gly 150	Thr	Leu	Glu	Pro	Gly	Thr 155	Glu	Arg	Arg	Ala	Pro 160
Glu	Thr	Gly	Gly	Ala 165	Pro	Arg	Ala	Pro	Gly 170	Ala	Gly	Arg	Leu	Asp 175	Leu
Gly	Ser	Gly	Gly	Arg	Ala	Pro	Val	Gly	Thr	Gly	Thr	Ala	Pro	Gly	Gly

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<210> 217
<211> 466
<212> DNA
<213> Homo sapien
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<400> 217						
gaatggtgcc	tgtcctgctg	tctctgctgc	tgcttctggg	tcttgctgtc	ccccaggaga	60
accaagatgg	tcgttactct	ctgacctata	tctacactgg	gctgtccaag	catgttgaag	120
acgtcccccg	gtttcaggcc	cttggtctac	tcaatgacct	ccagttcttt	agatacaaca	180
gtaaagacag	gaagttctcag	cccatggggac	tctggagaca	ggtggaagga	atggaggatt	240

Figure 1 consists of 12 bar charts, labeled (a) through (l), arranged in a 6x2 grid. Each chart shows the percentage of total protein in various fractions (A, B, C, D, E, F, G, H, I, J, K, L) for different protein types (A, B, C, D, E, F, G, H, I, J, K, L) across different conditions (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12). The y-axis represents the percentage of total protein, and the x-axis represents the fraction. The legend indicates that the bars represent the percentage of total protein in each fraction for each protein type.

<400> 218

```
<210> 219
<211> 1293
<212> DNA
<213> Homo sapien
```

<400> 219

```
<210> 220
<211> 983
<212> DNA
<213> Homo sapien
```

<400> 220

```
<210> 221
<211> 373
<212> DNA
<213> Homo sapien.
```

```
<210> 222
<211> 544
<212> DNA
<213> Homo sapien
```

```
<210> 223
<211> 316
<212> DNA
<213> Homo sapien
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gaacaacatc	atccttgaatc	actagataga	ctcttgacgg	aaagcaaagg	ggaaatgaaa	60
aaggaaaaata	tgaagaaaga	tgaagcttta	aaagcattac	agaaccaagt	atctgaagaa	120
acaatcaagg	ttaggcaact	agattcagca	ttggaaattt	gtaaggaaga	acttgtcttg	180
catttgaaatc	aattggaagg	aaataaggaa	aagtttgaaa	aacagttaaa	gaagaaatct	240
gaagaggtat	attgtttaca	gaaagagcta	aagataaaaa	atcacagtct	tcaagagact	300
tctgagcaaa	acgttattct	acagcatact	cttcagcaac	agcagcaaat	gttacaacaa	360

gagacaatta gaaatggaga gctagaagat actcaaacta aacttgaaaa acaggtgtca 420
 aaactggaac aagaacttca aaaacaaagg gaaagttcag ctgaaaagtt gagaaaaatg 480
 gaggagaaat g 491

<210> 226
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 226
 cagccgcacg ccgcggagca ggggctcggg ggtcccggga ttacggtgct cgagcacgct 60
 ggtgggaaaag gaccgcggac ttgaacagtg ttgtgcggcg ccatgcaggt ctccagcctc 120
 aatgaggtga agatttacag cctcagctgc ggcaagtccc ttcctgagtg gctttctgat 180
 aggaagaaga gagcgctaca gaagaaagat gtagatgtcc gtaggagaat tgaacttatt 240
 caggactttg aaatgcctac tgtgtgtacc actattaagg tgtcaaaaga tggacagtac 300
 attttagcaa ctggaacata taaacctcgg gttcgatgtt atgacaccta tcaattatcc 360
 ttgaagtttg aaaggtgttt agattcagaa gttgtcacct ttgaaatttt gtctgatgac 420
 tactcaaaga ttgtcttctt acataatgat agatacattg aatttcattc gcaatcaggt 480
 ttt 483

<210> 227
 <211> 486
 <212> DNA
 <213> Homo sapien

<400> 227
 gagcctcgct aagctccgac tctgggcggc accgggcgct ccacgatgcc gaagaacaag 60
 aagcggaaac cccccaccg cggtagcagt gctggcggcg gcgggtcagg agcagccgca 120
 gcgacggcgg cgacagcagg tggccagcat cgaaatgttc agccttttag tgatgaagat 180
 gcatcaattg aaacagtgag ccattgcagt gggtatagcg atccttccag ttttgctgaa 240
 gatggaccag aagtccttga tgaggaagga actcaagaag acctagagta caagttgaag 300
 ggattaattg acctaaccct ggataagagt gcgaagacaa ggcaagcagc tcttgaaggt 360
 attaaaaatg cactggcttc aaaaatgctg tatgaattta ttctggaaag gagaatgact 420
 ttaactgata gcattgaacg ctgcctgaaa aaaggaaga gtgatgagca acgtgcagct 480
 gcagcg 486

<210> 228
 <211> 494
 <212> DNA
 <213> Homo sapien

<400> 228
 gaggccagga ctccgggaat gcgagcaggc cccttattct ccagtgggc tcggtctgtc 60
 cccacagcgg ccgggtcagg gttgcccag ccccaaggcg gggggcggca ccggggtgct 120
 gaaagggaca gaatgctttg acctccaagc tgttttaaact ctagtagata agccagatcc 180
 tgtgttgcca taagcccttg gccacattt aagtgggaat gcagctagct tggatgtctg 240
 aaactttgta agcgccttct gtctgaatcc tgaacacagg caccaagact actgaagaag 300
 ctgctcattc ttgtgcagg atagccacac aagcaaact gtttgcaaaa cttgaaagaa 360
 agaaaattgc agaaagaaga cttgctgttc ttaagaggcc caggaaggtg ctacttagga 420
 atcccaccgg cttgtgaagc aagggaatca agtttgcctt caatggggaa cttgacttca 480
 ggaaaatgaa cttt 494

<210> 229
 <211> 465

<212> DNA

<213> Homo sapien

<400> 229

gtcagagagc	tggtataacc	tcctgttgga	catgcagaac	cgactcaata	aggatcatcaa	60
aagcgtgggc	aagattgagc	actccttctg	gagatccttt	cacactgagc	gaaagacaga	120
accagccaca	ggcttcatcg	atgggtgatct	gattgaaagt	ttcctagata	tcagccgccc	180
taagatgcag	gagggttggtg	caaacttgca	gtatgatgat	ggcagtggtg	tgaagcggga	240
ggcaactgca	gatgacctca	tcaaagtcgt	ggaggaacta	actcggatec	attagccaag	300
gacaggatct	cttttcctga	ccctcctaaa	ggcgttgccc	tcctatcctc	ccttccttgc	360
ccacccttgg	tttctttggc	atgggaaggt	tttccttaac	catttgcctt	agagccacca	420
gtgaccttgt	gtggaacacg	ggtttttttt	acttaaaaca	gttca		465

<210> 230

<211> 495

<212> DNA

<213> Homo sapien

<400> 230

caggggaaag	ggtgtttggc	cttgaccagc	caatgctgac	ctcaatctca	gacctacaga	60
tggtgaatat	ctccctgcga	gtgttgctct	gacccaatgc	tcaggagctt	cctagcatgt	120
accagcgctt	agggctggac	tacgaggaac	gagtggttgc	gtccattgtc	aacgaggtgc	180
tcaagagtgt	ggtggccaag	ttcaatgcct	cacagctgat	caccagcggt	gcccaggtat	240
ccctgttgat	ccgcccggag	ctgacagaaa	gggccaagg	acttcagcct	catcctggat	300
gatgtggcca	tcacagactt	gagcttttagc	cgagaagtac	acaagctgcc	tgtaaagaaac	360
ccaaccaagt	ggggtgaatt	ccaaaaaccc	gtgggggtga	agggcttctt	aagaatgcaa	420
ggaaggagga	aaagaattcc	atgggggggg	ggttccttaa	cccaggaaca	ggggtttccc	480
ttgaattttt	ttcca					495

<210> 231

<211> 498

<212> DNA

<213> Homo sapien

<400> 231

ggcagcttct	gagaccagg	ttgtctccgtc	cgtgctccgc	ctcgccatga	cttcctacag	60
ctatcgccag	tcgtcgcca	cgctgctcct	cggaggcctg	ggcgccggct	ccgtgctgtt	120
tgggcccggg	gtcgcttttc	gcgcgcccag	cattcacggg	ggctccggcg	gccgcccgtt	180
atccgtgtcc	tccgcccgtt	ttgtgtcctc	gtcctcctcg	gggggctacg	gcccgggcta	240
cggcgccgtc	ctgaccgctt	ccgacgggct	gctggcgggc	aacgagaagc	taaccatgca	300
gaacctcaac	gaccgcttgc	ctcctacctg	gacaaagtgc	gcgccttgga	agcggggcaac	360
ggcgaactta	gaggtgaaag	aatcccgcga	actggtacca	aaaacaagg	gcctggggcc	420
ttccgcgact	tacagccaac	ttactacacc	gaacattcaa	gaacttgcgg	gaacaaaaat	480
ttttggtgcc	acccattt					498

<210> 232

<211> 465

<212> DNA

<213> Homo sapien

<400> 232

cagggccggc	gagtaggaaa	gctggaggcg	cgggtgggga	acatgtctga	gtcggagctc	60
ggcaggaagt	gggaccggtg	tctggcggat	gcggtcgtga	agataggtag	tggtttttgga	120
ttaggaattg	ttttctcact	taccttcttt	aaaagaagaa	tgtggccatt	agccttcggt	180

<400> 239

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gaattcggca ccaggggaca ctggtgctga gctggatgat gatcagcact ggtctgacag 60
cccgtcggat gctgacagag agctgcgttt gccgtgccca gctgaggggg aagcagagct 120
ggagctgagg gtgtcggaa atgaggagaa gctgcccgc tcaccgaagc accaagagag 180
aggtccctcc caagccacca gcccctccg gtctccccag gaatcagctc ttctgttcat 240
tccagtccac agcccctcaa cagaggggcc ccaactccca cctgtccctg ccgccacca 300
ggagaaatca cctgaggagc gccttttccc tgagcctttg ctccccaaag agaagcccaa 360
agctgatgcc ccctcggatc tgaaagctgt gcactctccc atccgatcac agccagtac 420
cctgccagaa gctaggactc ctgtctcacc agggagcccg cagccccagc caccctggc 480
ggcctccacg cccccacca gcgaggtctc cagagccttc tctctcctgt gcaaaatggc 540
aactcttaag gaaaaactca ttgcaccagt tgcggaagaa gaggcaacag ttccaaacaa 600
taagatcact gta 613

```

```

<210> 240
<211> 585
<212> DNA
<213> Homo sapiens

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<400> 240
gaattcggca cgaggtgaga tctacgatga actttaagat tggaggtgtg acagaacgca 60
tgccaacccc agttattaaa gcttttggca tcttgaagcg agcggccgct gaagtaaacc 120
aggattatgg tcttgatcca aagattgcta atgcaataat gaaggcagca gatgaggtag 180
ctgaaggtaa attaaatgat cattttcctc tcgtggtatg gcagactgga tcaggaactc 240
agacaaatat gaatgtaaat gaagtcatta gcaatagagc aattgaaatg ttaggaggtg 300
aacttggcag caagatacct gtgcatccca acgatcatgt taataaaagc cagagctcaa 360
atgatacttt tcccacagca atgcacattg ctgctgcaat agaagttcat gaagtactgt 420
taccaggact acagaagtta catgatgctc ttgatgcaaa atccaaagag tttgcacaga 480
tcatcaagat tggacgtact catactcagg atgctgttcc acttactctt gggcaggaat 540
ttagtggtta tgttcaacaa gtaaaatatg caatgacaag aataa 585

```

```

<210> 241
<211> 566
<212> DNA
<213> Homo sapiens

```

```

<400> 241
gaattcggca ccaggcgagc tgcacctcga ggtgaaggcc tcaactgatga acgatgactt 60
cgagaagatc aagaactggc agaaggaagc ctttcacaag cagatgatgg gcggttcaa 120
ggagaccaag gaagctgagg acggctttcg gaaggcacag aagccctggg ccaagaagct 180
gaaagaggta gaagcagcaa agaaagccca ccatgcagcg tgcaaagagg agaagctggc 240
tatctcacga gaagccaaca gcaaggcaga cccatccctc aaccctgaac agtcaagaa 300
attgcaagac aaaatagaaa agtgcaagca agatgttctt aagaccaaag agaagtatga 360
gaagtccctg aaggaactcg accagggcac accccagtac atggagaaca tggagcaggt 420
gtttgagcag tgccagcagt tcgaggagaa acgccttcgc ttcttcggg aggttctgct 480
ggaggttcag aagcacctag acctgtccaa tgtggctggc tacaaagcca tttaccatga 540
cctggagcag agcatcagag cagctg 566

```

```

<210> 242
<211> 556
<212> DNA
<213> Homo sapiens

```

```

<400> 242
gaattcggca cgagcaaagg tgaagcagga catgcctccg cccgggggct atgggcccatt 60
cgactacaaa cggaacttgc cgcgtcgagg actgtcgggc tacagcatgc tggccatagg 120

```

000260"0229650

```

gatttgaacc ctgatctacg ggacttggag cataatgaag tggaaccgtg agcgcaggcg 180
cctacaaatc gaggacttcg aggctcgcac cgcgctgttg ccactgttac aggcagaaac 240
cgaccggagg accttgcaga tgcttcggga gaacctggag gaggaggcca tcatcatgaa 300
ggacgtgccc gactggaagg tgggggagtc tgtgttccac acaaccgct ggggtgcccc 360
cttgatcggg gagctgtacg ggctgcgcac cacagaggag gctctccatg ccagccacgg 420
cttcatgtgg tacacgtagg ccctgtgccc tccggccacc tggatccctg cccctcccca 480
ctgggacgga ataatgtctc tgcagacctg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa ctcgag                                     551

```

```

<210> 243
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 243
gtctatgttt gcagaaatac agatccaaga caaagacagg atgggcactg ctggaaaagt 60
tattaaatgc aaagcagctg tgctttggga gcagaagcaa cccttctcca ttgaggaaat 120
agaagttgcc ccaccaaaga ctaaagaagt tcgcattaag attttgcca caggaatctg 180
tcgcacagat gaccatgtga taaaaggaac aatggtgtcc aagtttccag tgattgtggg 240
acatgaggca actgggattg tagagagcat tggagaagga gtgactacag tgaaaccagg 300
tgacaaagtc atccctctct ttctgccaca atgtagagaa tgcaatgctt gtcgcaaccc 360
agatggcaac ctttgcatta ggagcgatat tactggctcg ggagtactgg ctgatggcac 420
caccagatth acatgcaagg gcaaaccagt ccaccacttc atgaacacca gtacatttac 480
cgagtacaca gtgggtggatg aatcttctgt tgctaagatt gatgatgcag ctctcctga 540
gaaagtctgt ttaattggct gtgggttttc cactggatat ggcgctgctg t 591

```

```

<210> 244
<211> 594
<212> DNA
<213> Homo sapiens

```

```

<400> 244
gaattcggca cgagaacaga gtgaactgag catcagtcag aaaaagtcta tgtttgcaga 60
aatacagatc caagacaaag acaggatggg cactgctgga aaagttatta aatgcaaagc 120
agctgtgctt tgggagcaga agcaaccctt ctccattgag gaaatagaag ttgccccacc 180
aaagactaaa gaagttcgca ttaagattht ggccacagga atctgtcgca cagatgacca 240
tgtgataaaa ggaacaatgg tgtccaagtt tccagtgatt gtgggacatg aggcaactgg 300
gattgtagag agcattggag aaggagtgcac tacagtgaac ccaggtgaca aagtcatccc 360
tctctttctg ccacaatgta gagaatgcaa tgcttgctgc aaccagatg gcaacctttg 420
cattaggagc gatattactg gtcgtggagt actggctgat ggcaccacca gatttacatg 480
caagggcaaa ccagtcacac acttcatgaa caccagtaca tttaccgagt acacagtggg 540
ggatgaatct tctgttgcta agattgatga tgcagctcct cctgagaaaag tctg 594

```

```

<210> 245
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (105)
<223> n=A,T,C or G

```

```

<400> 245

```


<210> 252
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 252
 gaattcgcac caggggtcct gctggtcttc gcctttcttc tccgcttcta ccccgtcggc 60
 cgctgccact ggggtccctg gcccaccga catggcgcg gtgttgagca agtcctggag 120
 cgcacggagc tgaacaagct gcccaagtct gtccagaaca aacttgaaaa gttccttgct 180
 gatcagcaat ccgagatcga tggcctgaag gggcgcatg agaaatttaa ggtggagagc 240
 gaacaacagt attttgaaat agaaaagagg ttgtcccaca gtcaggagag acttgtgaat 300
 gaaacccgag agtgtcaaag cttgcggctt gagctagaga aactcaacaa tcaactgaag 360
 gcactaactg agaaaaacaa agaacttgaa attgctcagg atcgcaatat tgccattcag 420
 agccaattta caagaacaaa ggaagaatta gaagctgaga aaagagactt aattagaacc 480
 aatgagagac tatctcaaga acttgaatac ttaacagagg atgttaaacg tctgaatgaa 540
 aaacttaaaag aaagcaatac aacaaagggt gaacttcagt taaaattgga tgaacttcaa 600
 gcttctgatg tttctggt 618

<210> 253
 <211> 1201
 <212> DNA
 <213> Homo sapiens

<400> 253
 gaattcggca ccaggggtggc gagcgcggt gctgtgctgg ggcgagcagc ggggaccgtg 60
 tgtgagtttg gcatgatttg gtcccttggg attctgcctt agcaagaaaag aagttggaaa 120
 tacttctctg aagaaaacta aaacaataca aaagccacag cttattgatt gcatgtcagc 180
 ccccttacaa atatggacac atttcttagc ctatttccac ctggaggaga tagtaggctg 240
 aatcctgagc ctgagttcca aaatatgtta attgatgaaa gggtagcctg tgaacatcat 300
 aaacataatt atcaggctct gaaaattgaa caaaaaggt tgcaggaaga atatgtaaaa 360
 tcacaaaatg aacttaaacg tgtattaatt gaaaagcaag caagccagga aaaattccaa 420
 ctgctccttg aagacttaag gggagaatta gtagagaaa gtagagacat agaaaaaatg 480
 aaactgcagg tactaacacc acaaaaattg gaattggtaa aagcccaact acaacaagaa 540
 ttagaagctc caatgcgaga acgttttctg actcttgatg aagaagtgga aaggtagaga 600
 gctgagtata acaagctgcg ctacgagtat acatttctca agtcagagtt tgaacaccag 660
 aaagaagagt ttactcgggt ttcagaagaa gagaaaatga aatacaagtc agaggttgca 720
 cgactggaga aggacaaaga ggagctacat aaccagctgc ttagtggtga tcccacgaga 780
 gacagcaaac gaatggagca acttgttcga gaaaaaacc atttgcttca gaaattgaaa 840
 agtttagagg ctgaagtagc agaattaagg gctgagaaa aaaattctgg tgctcaggta 900
 gaaaatgtcc aaagaatata ggtgaggcag ttggctgaga tgcaggctac actcagatcc 960
 ttggaggctg aaaagcagtc agctaaacta caagctgagc gtttagaaaa agaactacaa 1020
 tcaagcaatg aacagaatac ctgcttaatc agcaaactgc atagagctga ccgagaaatc 1080
 agcacactgg ccagtgaagt gaaagagctt aaacatgcaa acaaactaga aataactgac 1140
 atcaaaactg aggcagcaag agctaagagt gagctcgaaa gagaaaggaa taagatccaa 1200
 a 1201

<210> 254
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 254
 gaattcggca ccagtttggg gggtagaggt taattggaaa tggctctctg ggactgaaaa 60

```

ctgatgtttt tgcagattac ctcagggaaa cggaggtttg ttgagttaca gacacattaa 120
accaaaggcc gtgggaaaac cctctccag ctccagggga ttggtcagga ccaccacta 180
accagtgcct tccttcttaa cattcacttt tagcagcttg tgttatttt acatgggcag 240
ttttgatggg aaattgccat gaccacaggg gtttgaggtt ctgctttttt tttttcttct 300
tctttttcgg gggactgggg gactcctccc aagatcacat tttagcatct ttctctccta 360
ctccatttag aaaaataagt aacaggtgaa atgtggtctc agtgtaaagc ggataattct 420
gctaccggct cctccctgat gattctgaaa tacactactg aacgagctct ggctggctct 480
ttctatcctg gatgtggttc ttctgtgtag caattccttg atgtccagtt tggaaagatg 540
tactcttctc aacaagaaaa

```

<210> 255

<211> 612

<212> DNA

<213> Homo sapiens

<400> 255

```

gaattcggca ccaggcgggg cagcagggcc gcggccatgg ggagcttgaa ggaggagctg 60
ctcaaagcca tctggcacgc cttcaccgac tcgaccagga ccacagggca aggtctccaa 120
gtcccagctc aaggctcctt ccataacct gtgcacgggt ctgaaggttc ctcattgaccc 180
agttgccctt gaagagcact tcagggatga tgatgaggtt ccagtgtcca accagggtca 240
catgccttat ttaaacaggt tcatttttga aaagggtcaa gacaactttg acaagattga 300
attcaatagg atgtgttga ccctctgtgt caaaaaaaaa cctcacaagg aatccccctgc 360
tcattacaga agaagatgca tttaaaatat gggttatttt caacttttta tctgaggaca 420
agtatccatt aattattgtg tcagaagaga ttgaatacct gcttaagaag cttacagaag 480
ctatgggagg aggttggcag caagaacaat ttgaacatta taaaatcaac tttgatgaca 540
gtaaaaatgg cctttctgca tgggaactta ttgagcttat tggaaatgga cagtttagca 600
aaggcatgga cc

```

<210> 256

<211> 1132

<212> DNA

<213> Homo sapiens

<400> 256

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gaattcggca cgaggtctgg gagaggcctc tggagcagga ggcccagtggt ctcttctgac 60
ccaaggcccc gccgtccagc ttctaagtgc cagatgatgg aggagcgtgc caacctgatg 120
cacatgatga aactcagcat caagggtgtt ctccagtcgg ctctgagcct gggccgcagc 180
ctggatgcgg accatgcccc cttgcagcag ttctttgtag tgatggagca ctgcctcaaa 240
catgggctga aagttaagaa gagttttatt ggccaaaata aatcattctt tggctctttg 300
gagctgggtg agaaactttg tccagaagca tcagatatag cgactagtgt cagaaatctt 360
ccagaattaa agacagctgt gggaagaggg cgagcgtggc tttatcttgc actcatgcaa 420
aagaaactgg cagattatct gaaagtgcct atagacaata aacatctctt aagcgagttc 480
tatgagcctg aggttttaat gatggaggaa gaagggatgg tgattgttgg tctgctggtg 540
ggactcaatg ttctcgatgc caatctctgc ttgaaaggag aagacttggg ttctcaggtt 600
ggagtaatat attttccct ctaccttaag gatgtgcagg atcttgatgg tggcaaggag 660
catgaaagaa ttactgatgt ccttgatcaa aaaaattatg tggaaagaact taaccggcac 720
ttgagctgca cagttgggga tcttcaaacc aagatagatg gcttgaaaaa gactaactca 780
aagcttcaag aagagctttc agctgcaaca gaccgaattt gctcacttca agaagaacag 840
cagcagttaa gagaacaaaa tgaattaatt cgagaaagaa gtgaaaagag tgtagagata 900
acaaaacagg ataccaaagt tgagctggag acttacaagc aaactcggca aggtctggat 960
gaaatgtaca gtgatgtgtg gaagcagcta aaagaggaga agaaagtccg gttggaactg 1020
gaaaaagaac tggagtacaa aattggaatg aaaaccgaaa tggaaattgc aatgaagtta 1080
ctggaaaagg acaccacgga gaagcaggac acactagttg ccctccgcca gc

```

1132

000255.072950


```
<210> 263
<211> 506
<212> DNA
<213> Homo sapiens
```

```
<210> 264
<211> 600
<212> DNA
<213> Homo sapiens
```

<400> 264							
ggctcgtgaa	cacacactga	cagctatag	gnaggcggg	gcaccgtccc	cgcttccccc	60	
cgggcgggg	gtgtcccgtc	ggcgccctg	aagtgaacca	taaacatgtc	ttgtgagagg	120	
aaaggcctct	cggagctg	atcggagctc	tacttcctca	tcgcccggtt	cctggaagat	180	
ggaccctgtc	agcaggcggc	tcaggtgctg	atccgcgagg	tggccgagaa	ggagctgctg	240	
ccccggcgca	ccgactggac	cggaaggag	catcccagga	cctaccagaa	tctggtgaag	300	
tattacagac	acttagcacc	tgatcacttg	ctgcaaatat	gtcatcgact	aggacctctt	360	
cttgaacaag	aaattcctca	aagtgttctc	ggagtaacaa	ctttattagg	agctggaaga	420	
cagctctttc	tacgcacaaa	taaaagctgc	aagcatgttg	tgtggaagg	atctgctctg	480	
gctgcgttgc	actgtggaag	accactgag	tcaccagtta	actatggtag	cccaccagc	540	
attgcggata	ctctgttttc	aaggaaactg	aatgggaaat	acagacttga	gcgacttgtt	600	

```
<210> 265
<211> 534
<212> DNA
<213> Homo sapiens
```

<400> 265							
gaattcggca	cgagtgagga	gcccatcatg	gcgacgcccc	ctaagcggcg	ggcggtgagg		60
gccacggggg	agaaagtgct	gcgtacgag	acctcatca	gtgacgtgct	gcagcgggac		120
ttgcgaaag	tgctggacca	tccagacaa	gtatatgagc	agctggccaa	ataccttcaa		180
ctgagaaatg	tcattgagcg	actccagga	gctaagcact	cggagttata	tatgcaggtg		240
gatttgggct	tcaacttctt	cgttgacaca	tggtgccca	atacttcacg	catctatgtg		300

gccctgggat atggtttttt cctggagttg aactggcag aagctctcaa gttcattgat 360
 cgtaagagct ctctctcac agagctcagc aacagcctca ccaaggactc catgaatc 420
 aaagcccata tccacatggt gctagagggg cttagagaac tacaaggcct gcagaatttc 480
 ccagagaagc ctcaccattg acttcttccc cccatctca gacattaaag agcc 534

<210> 266

<211> 552

<212> DNA

<213> Homo sapiens

<400> 266

gaattcggca ccagggcacc tccgcctcgc cgcgcctagc tcggccggct ccgcccggct 60
 gccgcctagg atgaatatca tggacttcaa cgtgaagaag ctggcggcgc acgcaggcac 120
 ctctctcagt cgcgcctgac agttcacaga agaaaagctt ggccaggctg agaagacaga 180
 attggatgct cacttagaga acctccttag caaagctgaa tgtacaaaa tatggacaga 240
 aaaaataatg aaacaaactg aagtgttatt gcagccaaat ccaaagcca ggatagaaga 300
 atttggttat gagaaactgg atagaaaagc tccaagtcgt ataaacaacc cagaactttt 360
 gggacaatat atgattgatg cagggactga gtttgccca ggaacagctt atggtaatgc 420
 ctttattaaa tgtggagaaa cccaaaaaag aattggaaca gcagacagag aactgattca 480
 aacgtcagcc ttaaatcttc ttactccttt aagaaacttt atagaaggag attacaaaac 540
 aattgctaaa ga 552

<210> 267

<211> 551

<212> DNA

<213> Homo sapiens

<400> 267

gaagcctacc agccagggtgc cgcccccccc acccccggcc cagccccctc ctgcagcggt 60
 ggaagcggct cgcgcagatcg agcgtgaggc ccagcagcag cagcacctgt accgggtgaa 120
 catcaacaac agcatgcccc caggacgcac gggcatgggg accccgggga gccagatggc 180
 ccccgtagc ctgaatgtgc cccgacccaa ccagggtgagc gggcccgta tgcacagcat 240
 gcctcccggg cagtggcagc aggcgccccct tcccagcag cagcccatgc caggcttgcc 300
 caggcctgtg atatccatgc aggcaccaggc ggccgtggct gggccccgga tgcacagcgt 360
 gcagccaccc aggagcatct caccacagcgc tctgcaagac ctgctgcgga ccctgaagtc 420
 gccagctcc cctcagcagc aacagcaggt gctgaacatt ctcaaatac acccgagct 480
 aatggcagct ttcatacaac agcgcacagc caagtacgtg gccaatcagc ccggcatgca 540
 gccccagcct g 551

<210> 268

<211> 573

<212> DNA

<213> Homo sapiens

<400> 268

gaattcggca ccagggttcc ttgtgggcta gaagaatcct gcaaaaatgt ctctctatcc 60
 atctctcgaa gacttgaagg tagacaaagt aattcaggct caaactgctt tttctgaaa 120
 ccttgccaat ccagcaattt tgtcagaagc ttctgtctct atccctcacg atggaaatct 180
 ctatcccaga ctgtatccag agctctctca atacatgggg ctgagtttaa atgaagaaga 240
 aatacgtgca aatgtggccg tggtttctgg tgcaccactt caggggcagt tggtagcaag 300
 accttcagc ataaactata tgggtggctcc tgtaactggt aatgatgtg gaattcgtag 360
 agcagaaaatt aagcaaggga ttctgtgaagt catttttgtt aaggatcaag atggaaaaat 420
 tggactcagg cttaaatcaa tagataatgg tatatttgtt cagctagtcc aggctaattc 480
 tccagcctca ttggttggtc tgagatttgg ggaccaagta cttcagatca atggtgaaaa 540

573

```
<210> 269
<211> 500
<212> DNA
<213> Homo sapiens
```

<400> 269						
gaatcggcac	caggaaacct	ttattagcag	agatagctgg	cttggatcag	attacgggga	60
atgtggggga	gccatgaaga	aactaactaa	aggggagcct	ttggggacca	gggggagaca	120
agtcactatt	ttgagggaga	aagctctgga	ttgattctga	caggacactt	gagtggtgaac	180
tgtccaagct	aagcctctgg	gtgtgtagag	agagccctta	cagatagata	gcacctttgc	240
tttcagagtg	gaaggactag	ccactaagga	ccagaccaag	atgcatgtag	gtcactgaca	300
agcacctgat	gaagaggagg	ggtctcctcc	aagtttgtgt	ttggaactcc	tcctgtgttc	360
aatttcttaa	aagccataat	ccagcaagct	gaactcatga	gaaggtctgc	ttcatgttga	420
tcatgggaaga	cagaacacag	acggaaaactg	cagtgatggt	gtgaagacac	cacggatagg	480
gtaaggqcaq	tgaaggaqaa					500

```
<210> 270
<211> 224
<212> DNA
<213> Homo sapiens
```

```

<400> 270
gaattcgggca cgagaagact acaatctcca gggaaacctg gggcgtctcg cgcaaactgc 60
cataacttgaa agtagctaa gacccccagc cggagggaagt gagctctcct ggggcgtggg 120
tgttcgtgat ccttgcatct gttacttagg gtcaaggctt gggctttgcc ccgcagacct 180
ttgggacgac ccgggcccag cgcagctatg aacctggagc gagt                224

```

```
<210> 271
<211> 447
<212> DNA
<213> Homo sapiens
```

<400> 271						
gaattcggca	cgaggtggg	ccgggcccg	gcggatcgg	ggctcgggt	gcggggctcc	60
ggctgcgggc	gctgggccgc	gaggcgcgga	gcttgggagc	ggagcccagg	ccgtgccgcg	120
cgcgcccatg	aagggaagg	aggagaagga	ggcgcgcgca	cggctgggcg	ctggcggcg	180
aagccccgag	aagagcccga	gcgcgcagga	gctcaaggag	caggccaatc	gtctgttcgt	240
gggccgaaag	tacccggagg	cggcggcctg	ctacggccgc	gcgatcacc	ggaacccgct	300
ggtggccgctg	tattacacca	accgggcctt	gtgtacctg	aagatgcag	agcacgagca	360
gcgcctggcc	gactgcggc	gcgcctgga	gctggacggg	cagtctgtga	aggcgcaatt	420
cttctctggg	caqtgccagc	tggcaatg				447

```
<210> 272
<211> 606
<212> DNA
<213> Homo sapiens
```

<400>	272						
gcaactactt	atattccttt	gatggataat	gctgactcaa	gtcctgtggt	agataagaga	60	
gaggttattg	atttgcttaa	acctgaccaa	gtagaaggga	tccagaaatc	tgggactaaa	120	
aaacttaaga	ccgaaactga	caaaagaaat	gctgaagtga	agtttaaaga	ttttcttctg	180	
tccttgaaga	ctatgatgtt	ttctgaagat	gaggctcttt	gtgttgtaga	cttgctaaag	240	

```
<210> 273
<211> 598
<212> DNA
<213> Homo sapiens
```

```
<210> 274
<211> 536
<212> DNA
<213> Homo sapiens
```

```
<210> 275
<211> 494
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (379)  
<223> n=A,T,C or G
```

```
<400> 275
gaattcggca ccagggtcgc ggttcttggt tgtggatcgc tgtgatcgtc acttgacaat 60
gcagatcttc gtaagactc tgactgtaa gaccatcacc ctcgaggttg agcccagtga 120
```


<210> 279
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (457)
 <223> n=A,T,C or G
 <221> misc_feature
 <222> (471)
 <223> n=A,T,C or G

<400> 279
 gaattcggca cgaggccaca gaggcggcgg agagatggcc ttcagcgggt cccaggctcc 60
 ctacctgagt ccagctgtcc ccttttcttg gactattcaa ggaggtctcc aggacggact 120
 tcagatcact gtcaatggga ccgttctcag ctccagtgga accaggtttg ctgtgaactt 180
 tcagactggc ttcagtggaa atgacattgc cttccacttc aacctcgggt ttgaagatgg 240
 agggtagctg gtgtgcaaca cgaggcagaa cggaagctgg gggcccagg agaggaagac 300
 acacatgcct ttccagaagg ggatgccctt tgacctctgc ttcttggtgc agagctcaga 360
 tttcaagggtg atggtgaacg ggatcctctt cgtgcagtac ttccaccgcg tgcccttcca 420
 ccgtgtggac accatctccg tcaatggctc tgtgcanctg tctacatca ncttccagac 480
 ccagacagtc atccaca 497

<210> 280
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (451)
 <223> n=A,T,C or G

<400> 280
 gaattcggca ccagaatagg aacagctccg gtctacagct cccagcgtga gcgacgcaga 60
 agacgggtga tttctgcatt tccatctgag gtaccgggtt catctcacta gggagtgcc 120
 gacagtgggc gcaggccagt gtgtgtgctc accgtgcgcg agccgaagca gggcgaggca 180
 ttgctcacc tgggaagcac aaggggtcag ggagttccct ttccgagtca aagaaagggg 240
 tgacggacgc acctggaaaa tcgggtcact cccacccgaa tattgtgctt ttcagaccgg 300
 cttaagaaac ggcgcaccac gagactatat cccacacctg gctcagaggg tctacgccc 360
 acggaatctc gctgattgct agcacagcag tcttagatca aactgcaagg ggggcaacga 420
 ggctggggga ggggcgcccg ccattgcccc ncttgctta ggtaaactaa gcagccggga 480
 agcttgaact gggtaggagc caccacagct caaggaggcc tgctgcctc tgtagctcca 540
 cctc 544

<210> 281
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

000250"0/T/9960

<223> n=A, T, C or G

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ctgagcgggtg	catcgagtcc	ctgattgctg	tcttccagaa	gtatgctgga	aaggatggtt	120
ataactacac	tctctccaag	acagagttcc	taagcttcac	gaatacagaa	ctagctgcct	180
tcacaaagaa	ccagaaggac	cctgggtgtcc	ttgaccgcat	gatgaagaaa	ctggacacca	240
acagtgatgg	tcagctagat	ttctcagaat	ttcttaatat	gattggtggc	ctagctatgg	300
cttgccatga	ctccttccct	aaggtgtgct	cttcccagaa	gcggaacctg	ggacccttgg	360
gccctggcct	ctcaaacccac	cccctttcct	tccagccttt	ctgtcatcat	ctccacagcc	420
caccctatccc	ctgagcacac	taaccacctc	atgcanggcc	cccctgccaa	tagtaataaa	480
qcaatgtcct	tttttaaaac	atgaaaaaaaa	aaaaaaaaaaa	actcgaq		527

<211> 514

<213> Homo sapiens

<221> misc feature

<223> n=A, T, C or G

ggaagactgg	agccttttgcg	gcggcgctgc	cctcccctg	gtccccgcga	gtcgggaggg	60
cccggctgg	gctgcggggg	ccccgggagg	ttgaaaacta	agcatgggga	agagctgcaa	120
ggtggtcgtg	tgtggccagg	cgtctgtggg	caaaacttca	atcctggagc	agcttctgta	180
tgggaaccat	gtagtgggtt	cggagatgat	cgagacgcag	gaggacatct	acgtgggctc	240
cattgagaca	gaccgggggg	tgcgagagca	ggtgcgtttc	tatgacaccc	ggggggtccg	300
agatggggcc	gaactgcccc	gacactgctt	ctcttgcact	gatggctacg	tcttggtcta	360
tagcacagat	agcagagagt	cttttcagcg	tgtggagctg	ctcaagaagg	agattgacaa	420
atccaaggac	aagaaggagg	ttccactcgt	gtgtcttggc	aacaagtgtg	acttacagga	480
gcaqcggcgt	gtanacccaa	atgtggctca	acac			514

<211> 484

<213> Homo sapiens

gggcgggcg	tggacagtc	tggcgggcg	gcgcggggt	ctcatagtgc	tggagggcgt	60
ggaccgcgcc	gggaagagca	cgcagagccg	caagctggtg	gaagcgctgt	gcgccgcggg	120
ccaccgcgcc	gaactgtctc	ggttcccgga	aagatcaact	gaaatcgcca	aacttctgag	180
ttcctacttg	caaaagaaaa	gtgacgtgga	ggatcactcg	gtgcacctgc	tttttctgc	240
aaatcgcttg	gaacaagtgc	cgttaattaa	ggaaaagt tg	agccagggcg	tgaccctcgt	300
cgtggacaga	tacgcatttt	ctggtgtggc	cttcaccggg	gccaaaggaga	atttttccct	360
agactggtgt	aaacagccag	acgtgggcct	tcccaaacc	gacctggtcc	tgttctcca	420
gttacagctg	gcggatgctg	ccaagcgggg	agcgtttggc	catgagcgct	atgagaacgg	480
ggct						484

<211> 514

<212> DNA

<213> Homo sapiens

<400> 284

```

gaattcggca cgaggcggag gccgaggag ctccctcggtc cttcagcacc cctcggcccg 60
acgcacccac gcccctcacc ccccgagagc cgaaaatgga cccaagtggg gtcaaagtgc 120
tggaacacgc agaggacatc caggagaggc ggcagcaggt cctagaccga taccaccgct 180
tcaaggaact ctcaaccctt aggcgtcaga agctggaaga ttctatcga ttccagttct 240
ttcaaagaga tgctgaagag ctggagaaat ggatacagga aaaacttcag attgcatctg 300
atgagaatta taaagaccca accaacttgc agggaaagct tcagaagcat caagcatttg 360
aagctgaagt gcaggccaac tcaggagcca ttgttaagct ggatgaaact ggaaacctga 420
tgatctcaga agggcatttt gcatctgaaa ccatacggac ccgtttgatg gagctgcacc 480
gccagtggga attacttttg gagaagatgc gaga                                     514

```

<210> 285

<211> 383

<212> DNA

<213> Homo sapiens

<400> 285

```

gaattcggca cgaggccggg ctccaccgcg catcctgctc cactctggcg accgcccccg 60
gggcccccg cgcgggcgcg gcgcccgcga tgggcgagga ggactactat ctggagctgt 120
gcgagcggcc ggtgcagttc gagaaggcga accctgtcaa ctgcgtcttc ttgatgagg 180
ccaacaagca ggtttttgcg gttcgatctg gtggagctac tggcgtggta gttaaaggcc 240
cagatgatag gaatcccatc tcatttagaa tggatgacaa aggagaagtg aagtgcatta 300
agtttttcctt agaaaataag atattggctg ttcagaggac ctcaaagact gtggattttt 360
gtaattttat ccctgataat tcc                                     383

```

<210> 286

<211> 943

<212> DNA

<213> Homo sapiens

<400> 286

```

gaattcggca ccagggccgt ggcgaggag gagcgctgca cggtgaggcg tcgggccgac 60
ctcacctacg cggagttcgt gcagcagtag gtgcgcccct gatcgcgag gtgcgctcct 120
gttcaccggc ccgtctgccc cgaccgccc aggcgcgctt cccctgacct cgcgcgacg 180
cgtggggctg gggcggcgag gctggcggtc cggcctggcc gcgactctgc ccttctttcc 240
agaggttccg ggccctgtgc tcccgcgaca ggttgctggc ttcgtttggg gacagagtgg 300
tccggtctgag caccgccaac acctactcct accacaaagt ggacttgccc ttccaggagt 360
atgtggagca gctgctgcac cccagggacc ccaactccct gggcaatggt gaggcagccc 420
taggcggcgg tagggggtgg ggacgcttgg agtctccagg tgccaggatc cctgtccccg 480
ccgtctctgt tggcagacac cctgtacttc ttccggggaca acaacttcac cgagtgggac 540
tctctctttc ggcactactc cccaccccc tttggcctgc tgggaaccgc tccagcttac 600
agcttttgaa tcgcaggagc tggctcgggg gtgcccttcc actggcatgg acccggttac 660
tcagaagtga tctacggtcg taagcgctgg ttccctttacc cacctgagaa gacgccagag 720
ttccaccccc acaagaccac actggcctgg ctccgggaca cataccagc cctgccaccg 780
tctgcacggc ccctggagtg taacctccgg gctggtagg tgctgtactt cccgaccgc 840
tggtggcatg ctacgctcaa ccttgacacc agcgtcttca tctccacctt cctcggctag 900
ccaaaacagc tggcaggact gccggtcaca caccagcacg tcc                                     943

```

<210> 287

<211> 1143

<212> DNA

<213> Homo sapiens

000250" 0272960

<400> 287

```

gaattcggca cgagggaaga acagctgttg gaacaacaag aatattttaga aaaagaaatg 60
gaggaagcaa agaaaatgat atcaggacta caggccttac tgctcaatgg atccttacct 120
gaagatgaac aggagaggcc cttggccctc tgtgaaccag gtgtcaatcc cgaggaacaa 180
ctgattataa tccaaagtcg tctggatcag agtatggagg agaatcagga cttaaagaag 240
gaactgctga aatgtaaaca agaagccaga aacttacagg ggataaagga tgccttgag 300
cagagattga ctcagcagga cacatctgtt cttcagctca aacaagagct actgagggca 360
aatatggaca aagatgagct gcacaaccag aatgtggatc tgcagaggaa gctagatgag 420
aggaaccggc tcttgggaga atataaaaaa gagctggggc agaaggatcg ccttcttcag 480
cagcaccagg ccaagttaga agaagcactc cggaactct ctgatgtcag ttaccaccag 540
gtggatctag agcgagagct agaacacaaa gatgtcctct tggctcactg tatgaaaaga 600
gaggcagatg aggcgaccaa ctacaacagt cacaactctc aaagcaatgg ttttctcctt 660
ccaacggcag gaaaaggagc tacttcagtc agcaacagag ggaccagcga cctgcagctt 720
gttcgagatg ctctccgag cctgcgcaac agcttcagtg gccacgatcc tcagcaccac 780
actattgaca gcttggagca gggcatttct agcctcatgg agcgctgca tgttatggag 840
acgcagaaga aacaagaaaag aaagggttcg gtcaagtcac ccagaactca agtaggtagt 900
gaataccggg agtcctggcc ccctaactca aagttgcctc actcacagag ctctccaact 960
gtcagcagca cctgtactaa agtgctctat ttactgacc ggtcacttac gcccttcag 1020
gtcaatatac caaagagggt ggaggagggt acgttaaagg attttaaagc agctattgat 1080
cggggaaggaa atcaccggta tcacttcaaa gcactggatc ctgagtttgg cactgtcaaa 1140
gag 1143

```

<210> 288

<211> 881

<212> DNA

<213> Homo sapiens

<400> 288

```

gtgagagcgg gccgaggaga ttggcgacgg tgcgcgccgt gttttcgttg gcgggtgcct 60
gggctggtgg gaacagccgc ccgaaggaag caccatgatt tcggccgcgc agttgttgga 120
tgagttaatg ggccgggacc gaaacctagc cccggacgag aagcgcagca acgtgcggtg 180
ggaccacgag agcgttttga aatattatct ctgtgggttt tgcctgcgg aattgttcac 240
aaatacacgt tctgatcttg gtccgtgtga aaaaattcat gatgaaaatc tacgaaaaca 300
gtatgagaag agctctcgtt tcatgaaagt tggtatgag agagattttt tgcgatactt 360
acagagctta cttgcagaag tagaacgtag gatcagacga ggccatgtc gtttggcatt 420
atctcaaaac cagcagtcct ctggggccgc tggcccaaca ggcaaaaatg aagaaaaaat 480
tcaggttcta acagacaaaa ttgatgtact tctgcaacag attgaagaat tagggtctga 540
aggaaaagta gaagaagccc aggggatgat gaaattagtt gagcaattaa aagaagagag 600
agaactgcta aggtccacaa cgctcgacaat tgaaagcttt gctgcacaag aaaaacaaat 660
ggaagtttgt gaagtatgtg gagccttttt aatagtagga gatgccagc cccgggtaga 720
tgaccatttg atgggaaaac aacacatggg ctatgccaaa attaaagcta ctgtagaaga 780
attaaaagaa aagttaagga aaagaaccga agaacctgat cgtgatgagc gtctaaaaaa 840
ggagaagcaa gaaagagaaa aaaaaaaaaa aaaaactcga g 881

```

<210> 289

<211> 987

<212> DNA

<213> Homo sapiens

<400> 289

```

gaattcggca cgagggactg tggtttccag gaatggtggc gtctcacgct tcttgtgctt 60
tttcttttgg ggctccgag cggtgggggt tgggggactg ggcaggaggc tccctgtaaa 120
catttggact tgggctgggg caggggctgg tggtgggcaa agctgggggt ccaggctgga 180

```

```

gaagcagggg cccctccaga cgcagccttg ggagactcag catgtgcccc cctcccctca 240
tcacagaaca agacaatggg taaaaaccag aacagatgcc cagaaggggg taccatggcc 300
attaccagca tctcagacaa gggcagcctt caaacaggga ggcctgtggc aaccctccc 360
ctacgtctgg agctgagggg acagggggag ctgagaacaa agagaggaaa gaggagaaaa 420
gcggcggggg aacaggcggg gagcgtgatc ttcttgcccc catcttctc aggggttggg 480
gggtacaaag tcggcggtgg cccatcccgc caggccccgc tgcccctcag aagaggccgc 540
agtccttcag gttgttcttg atgatgacat cggtgacggc gtcaaacacg aactgcacgt 600
tcttggtgtc ggtggcgcac gtgaagtgcg tgtagatctc cttggtgtct ttgcgcttat 660
tcaggtcctc aaacttactc tggatgtagc tggctgctc atcatatttg ttggcccctg 720
tatactcagg gaagcagatg gtcaggggac tgtgtgtgat cttctcctca aacaggctct 780
tcttggtgag gaagaggatg atggacgtgt ctgtgaacca cttgttgttg cagatgctat 840
cgaatagcct catgctctca tgcattcggt tcatctctc gtccctcagc agcaccaagt 900
cataggcgct caaggctacg cagaagatga tggctgtgac gccctcaaag cagtggatcc 960
acttcttcgc ctcagaccgc tgaccac 987

```

```

<210> 290
<211> 300
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 290
gattcaagat gtacccatt gactttgaga aggatgatga cagcaacttt catatggatt 60
tcatcgtggc tgcattcaac ctccgggcag aaaactatga cattccttct gcagaccggc 120
acaagagcaa gctgattgca gggaagatca tcccagccat tgccacgacc acagcagccg 180
tggttggcct tgtgtgtctg gagctgtaca aggttgtgca ggggcaccga cancttgact 240
cctacangaa tgggtgcctc aacttgagcc ctgcctttct ttgggtttct tgaaccctt 300

```

```

<210> 291
<211> 352
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 291
aaccaagctg ccaccggggg tggatcggat ggcgcttgag aggcattctgt ctgccgagga 60
cttctcaagg gtatttgcca tgtccctga agagtttggc aagctggctc tgtggaagcg 120
gaatgagctc aagaagaagg cctctctctt ctgatggccc ccacctgctc cgggacggcc 180
cccttcccc tgctgcttca gggtttttcc cggcggggtt gggaggggca ggaggtgggg 240
tggaatnngg gtgggncctt ttctcaggt agagngggg gccaaaacct ctgcngtccc 300
cggagnagac tatggacttt cttccccctc acaagngntg ggcctcctg ct 352

```

```

<210> 292
<211> 511
<212> DNA

```

000260 07/99


```

ccccgtgtcca aagcaggctc ttccctgcgct gacttctgag gagngttca gtccctctgcc 300
atgtataggc gatacatcaa ggcgacggcc actgcagaga tggcagggat caccagttg 360
gtccaccaac tggaaactaga atcaatagta gtgataagag tttccggagg cttgtttaac 420
tttggctctgt catctggatg gagctcccca atgatgaatg ttttgacat ttccctggca 480
tctgtagant gcccgacatc ctcaaagttc tcagtagcng tcacctccac ttgttcctt 540
aaaacttctt ccccaaccagg atgctcttcc agaaatttgg gncaaatcgn acaccttgtg 600
g 601

```

```

<210> 295
<211> 262
<212> DNA
<213> Homo sapien

```

```

<400> 295
cccttagccc caagggccct gggggcagcc accctcccgc ctgtcggccc gtagatttat 60
caagggtgtt atgggcccag ctttgggggg ccagtcgccg tgcactttga ggggtgttgg 120
agaggggact ccccaactcg cacttaactc aacggctctc gggccctggg gctgttttta 180
ccatgtttgt ttttgaagct caggtgtctc acgtctgggc tgcaccaggc gaagagagaa 240
attaagatt tgagggtttt cc 262

```

```

<210> 296
<211> 598
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(598)
<223> n = A,T,C or G

```

```

<400> 296
gttagaaca ctcagcaaaa taaaattcct gtttattgtt ggacaacatt gtttcacaca 60
tacatcaaac aggccaaaaa aaataaacag caacttcata gacaaaaaag gaaaaaaaaa 120
gaaacctttt atctttggcc tttttaacca tctcatacaa accaactact tatagtacag 180
ctaagtacat acacaaaaaa gttactggaa tgctcggaat aagattgttt ttctgtgtgc 240
atttttgctt tttttacaag gntttttttc tcctttgaga ttataatgaa catggncaca 300
ccacaagtaa agtcagaagt aggacagana acgctccgaa ggctggtttg gtcacccgan 360
atcattaaaa atggctgacc ctaacaatat gtacaaaaat ataaaatgta aataaaaaat 420
acaaacaaat ttctttttta aagtactttt aagaaaaaaa gcagggcctt ggaagttttg 480
gttctttttt cctccctgtg tgcaaatctc catggtttgg gttgggtggn gganancccc 540
tgtcatctgc ggggtggcact gccccggngg gcggggcgggc ctctctctcg aangngac 598

```

```

<210> 297
<211> 509
<212> DNA
<213> Homo sapien

```

```

<400> 297
agaacacagg tgtcgtgaaa actacccta aaagccaaaa tgggaaagga aaagactcat 60
atcaacattg tcgtcatttg acacgtagat tcgggcaagt ccaccactac tggccatctg 120
atctataaat gcggtggcat cgacaaaaga accattgaaa aatttgagaa ggaggctgct 180
gagatgggaa agggctcctt caagtatgcc tgggtcttgg ataaactgaa agctgagcgt 240
gaacgtggta tcaccattga tatctccttg tggaaatttg agaccagcaa gtactatgtg 300
actatcattg atgccccagg acacagagac tttatcaaaa acatgattac agggacatct 360

```

00667170.000000

caggctgact gtgctgtcct gattgttgct gctgggtgtg gtgaatttga agctgggtatc 420
 tccaagaatg ggcaggaccc gagagcatgc ccttctggct tacacactgg gtgtgaaaca 480
 actaattgtc ggtgttaaca aaatggatt 509

<210> 298
 <211> 267
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 298
 gggacggggg aaaggagacg cttcttcttc ttgctgctct tctcgttccc gagatcagcg 60
 gcggcggtga ccgcgagtgg gtccgcaccg tctccggctc cgggngcnaa caatgctgac 120
 tgatagcgga ggcggnggca cctccttnna ggaggacctg gactctgtgg ctccgcgac 180
 cgccccagct ggggcctcgg agcgcctcgc gccgggaggg gtcgggtctgg ggatccncac 240
 cngagggctn tttggggagg gcggggcc 267

<210> 299
 <211> 121
 <212> DNA
 <213> Homo sapien

<400> 299
 ggcacgaggg ccctcggagc tcgtttccag atcgaggtaa gagggacttt cttaaagggc 60
 tagtctatgg gatggggcgg cggaggggaat tttttgagaa ataaaatgaa gctgcagtgt 120
 a 121

<210> 300
 <211> 533
 <212> DNA
 <213> Homo sapien

<400> 300
 aaggtgcaca gtatttgatg caggctgctg gtcttggtcg tatgaagcca aacacacttg 60
 tccttggatt taagaaagat tggttgcaag cagatatgag ggatgtggat atgtatataa 120
 acttatttca tgatgctttt gacatacaat atggagtagt gggtattcgc ctaaaagaag 180
 gtctggatat atctcatctt caaggacaag aagaattatt gtcatcacia gagaaatctc 240
 ctggcaccaa ggatgtggta gtaagtgtgg aatatagtaa aaagtccgat ttagatactt 300
 ccaaaccact cagtgaaaaa ccaattacac acaaagttga ggaagaggat ggcaagactg 360
 caactcaacc actgttgaaa aaagaatcca aaggccctat tgtgccttta aatgtagctg 420
 accaaaagct tcttgaagct agtacacagt ttcagaaaaa acaaggaaag aatactattg 480
 atgtctggtg gctttttgat gatggaggtt tgaccttatt gataccttac ctt 533

<210> 301
 <211> 560
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

09567.170.092000

<222> (1)...(560)

<223> n = A,T,C or G

<400> 301

ataaatgata	ccttttattg	taagtaatgc	gcaacactgg	cctggctttg	caactgcaagc	60
cctcggtcaa	gatatagtca	aataactatg	gctgcagggt	ccacagttcc	acaataacca	120
tggctgcacg	atccacaatt	cagacacaga	catagagctg	gggtgggtgg	aaggggcagg	180
aggggtggcag	agtgcggact	gtccccagcc	ctggcctctc	catgcanagt	tggcccaggc	240
agacacaccc	catggaatga	tgagaaagtg	acggcacggc	cccttcccac	agcaagcctg	300
gggctgccag	gaactgccct	tcanaacctt	tggggcccagg	tcnccctgaa	nccccacaac	360
tttttatctg	gaataagtat	taaaaaacia	taaattaagc	aaacaacntg	gnccttgaag	420
gatgttgacc	nacatgggtc	acagtttttg	gcncaaaaaa	ataagggctg	gtttgctttt	480
tttggaggc	aggttttg	gnttggcttt	caaatnattt	tcaaacatt	cccaggagg	540
gganaacccc	cgggggggaa					560

<210> 302

<211> 599

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(599)

<223> n = A,T,C or G

<400> 302

gcaaagtac	aaatttattg	gtctggaaat	aaatacaaat	atctcattaa	naaactcctc	60
tggaaagact	tgtgcacaat	agtttcccat	ccgtactcag	cctctcttgc	cccgatcccc	120
gacttttcta	ctcaaggcca	gggaaggcct	ccaaggngat	gggcggcagg	taacgagtca	180
ttgcctctca	cgcacactgg	aaggtctggac	tacttccctc	tcccaactgc	ggggtccan	240
aaatcctcgg	gtcccagngg	ctgacttaca	atattcaatt	caactctgacc	aaacttccta	300
tganaaaatc	cacgngagc	caaatgaaa	agtacaaggc	agtagtacag	gaacctggca	360
gccgactgg	ccgccanaa	acgtcagtgg	ngctgcccca	tccggcgaaa	ggttagggag	420
caggaaaaga	ggaagcagga	gagggaagga	aagtcctatg	gaatatgtat	tccanaatcc	480
ttacatttcc	tcagccaccg	ctccccacgt	gagttccac	ccccaccocg	acaagaagca	540
aagagtctcg	aggatccaag	aacgtgaccg	ggtcanacan	gttcagctac	tgagttcac	599

<210> 303

<211> 591

<212> DNA

<213> Homo sapien

<400> 303

cggagtgtga	acgtccact	gactgataga	gcgaccggcc	gacctggcg	cccgagtg	60
cccgcgggcc	gacgccgtac	tggagggttc	gcctcggtgg	cgccgcgctg	ctcctgctgc	120
tcateccggg	ggccgcggcg	caggagcctc	ccggagctgc	ttgttctcag	aacacaaaca	180
aaacctgtga	agagtgcctg	aagaacgtct	cctgtctttg	gtgcaacact	aacaaggctt	240
gtctggacta	cccagttaca	agcgtcttgc	caccggcttc	cctttgtaaa	ttgagctctg	300
caagctgggg	agtttggttg	gtgaactttg	aggcgctgat	catcaccatg	tcggtagtcg	360
ggggaaccct	cctcctgggc	attgccatct	gctgctgctg	ctgctgcagg	aggaagagga	420
gccggaagcc	ggacaggagt	gaggagaagg	ccatgcgtga	gcgggaggag	aggcggatag	480
ggcaggagga	acggagagca	gagatgaaga	caagacatga	tgaaatcaga	aaaaaatatg	540
gcctgtttta	agaagaaaac	ccgtatgcta	gatttgaaaa	caactaaagc	g	591

000250 027955

<210> 304
 <211> 441
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(441)
 <223> n = A,T,C or G

<400> 304
 gctggacgga gacctgctgg aggaggagga gctggaggaa gcagaggagg aggaccggtc 60
 gtcgtgctg ctgctgtcgc cgcccgcggc caccgcctct cagacccagc agatcccagg 120
 cgggtccctg ggggtctgtgc tgcctgccagc cgccagggtc gatgcccggg aggcggcggc 180
 ggcggcgggg gtgctgtacg gaggggacga tgcccagggc atgatggcgg cgatgctgtc 240
 ccacgcctac ggccccggcg gttgtggggc ggcgcgggcc gccctgaacg gggagcaggc 300
 ggccctgctc cggagaaaga gcgtcaacac caccgagtgc gtcccggtgc ccagctccga 360
 gcacgtcgcc gagatcgtcg gccgccaggg ttgtaaaatt aaagcactga nagccaagac 420
 aaacacgtat atcaagactc c 441

<210> 305
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 305
 tcgcatgcc cctttcttag cactgcaccg ccagggtccat gctgctgcca cccagacct 60
 gggctttgcc tgccacctct gtgggcagag ctcccgaggc tgggtggccc tggttctgca 120
 tctgcgggcc cattcagctg caaagcggcc catcgcttgt cccaaatgcg agagacgctt 180
 ctggcgacga aagcagcttc gagctcatct gcggcggtgc caccctcccg ccccgaggc 240
 ccggcccttc atatgcggca actgtggccg gagctttgcc cagtgggacc agctagtgtc 300
 ccacaagcgg gtgcacgtag ctgaggccct ggaggaggcc gcagccaagg ctctggggcc 360
 ccggcccagg ggccgccccg cgggtgaccgc ccccgggcc ggtggagatg ccgtcgaccg 420
 ccccttcag tgtgcctgtt gtggcaagcg ctccggcac aagcccaact tgatcgctca 480
 ccgcgcgtg c 491

<210> 306
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 306
 tctctttctt ttaagacagg aatgtaagcc acaacattta caaatacaat gttttaactc 60
 tctacatgta ggaagccaac ctgctccttt ttgatcttct tctttggcac aacctcagt 120
 gatttctctg attcagaacg agttctaatt gatcttctct gttgcttctt ttctactgag 180
 cctgtagaac cagatgttgc ttcaggagat gatacactct gcgttggtt ttcatcttc 240
 tggtttggtg tagaaattat aagcctgtct tgccccctga cacttatttc tgttttgtta 300
 ccaattccct ttgttgaata aacaaattga tcgataaatt tcccatcccc tgtagcattc 360
 tgaagagcaa acacttggtc aattttcaca actggagaca tgttacactt ctgcaaatcc 420

09667170.096000

```
<210> 307
<211> 571
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(571)
<223> n = A,T,C or G
```

```
<210> 308
<211> 591
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(591)
<223> n = A,T,C or G
```

```
<210> 309
<211> 591
<212> DNA
<213> Homo sapien
```

<400> 309

```
<210> 310
<211> 488
<212> DNA
<213> Homo sapien
```

```
<210> 311
<211> 511
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G
```

```
<210> 312
<211> 591
<212> DNA
<213> Homo sapien
```

```

gaacttgctg tgaaggaagc agaaactgat gaaataaaaa ttttgctgga agaaagcaga 60
gcccagcaga aggagacctt gaaatctctt cttgaacaag agacagaaaa tttgagaaca 120
gaaattagta aactcaacca aaagattcag gataataatg aaaattatca ggtgggctta 180
gcagagctaa gaactttaat gacaattgaa aaagatcagt gtatttccga gttaattagt 240
agacatgaag aagaatctaa tatacttaaa gctgaattaa acaaagtaac atctttgcat 300
aaccaagcat ttgaaataga aaaaaaccta aaagaacaaa taattgaact gcagagtaaa 360
ttggattcag aattgagtgc tcttgaaaga caaaaagatg aaaaaattac ccaacaagaa 420
gagaaatacg aagctattat ccagaacctt gagaaagaca gacaaaaatt ggtcagcagc 480
caggagcaag acagagaaca gttaattcag aagcttaatt gtgaaaaaga tgaagctatt 540
cagactgccc taaaagaatt taaattggag agagaagttg ttgagaaaga g 591

```

```

<210> 313
<211> 373
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(373)
<223> n = A,T,C or G

```

```

<400> 313
ttgattttta ttctgnatth tattactgaa atangttgtc ctantnatcc caccaccacaa 60
taaaaaatnn acccangccc cccttttctt tncctnatnc cctnttccac cacaccatcc 120
cggaacaagt gctccaggat tccctgccc ctggccattt tggagtgtgn ccattgggta 180
gcaatgtgga aaccaccaag gcctttgtgg anaaaatgga ggggggttgag ggagncccan 240
gaggggctna tttgagggcc tttgccactt gctcataggc gagctcnatc tcctcntnat 300
ctgnacangt ggaagcaaatt tcttcccggg cgtnggnant gctnaagnac cgatgcactc 360
cccgaaggn ctn 373

```

```

<210> 314
<211> 591
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(591)
<223> n = A,T,C or G

```

```

<400> 314
cccgtgccgc cgccgcctcc tgggaagaga ggaagcggga gaggagccca cgtcgccctgt 60
caccacaatat ctccagccgc gcagtcccga agagtgtgaa atgttcgcct gcgccaagct 120
cgcttgacc ccctctctga tccgagctgg atccagagtt gcatacagac caatttctgc 180
atcagtgtta tctcgaccag aggctagtag gactggagag ggctctacgg tatttaattg 240
ggcccagaat ggtgtgtctc agctaatacca aaggaggttt cagaccagtg caatcagcag 300
agacattgat actgctgcc aatttattgg tgcagggtct gcaacagtag gagtggctgg 360
ttctgggtgt ggtattggaa cagtctttgg cagccttatc attggttatg ccagaaaccc 420
ttcgctgaag cagcagctgt tctcatatgc tatcctggga tttgccttgt ctgaagctat 480
gggtctcttt tgttgatgg ttgctttctt gatctgtttt gccatgtaac aaattactgc 540
ttgacatggt ggcattcata ttaattacng atgtaattct gtgtatctta c 591

```

```

<210> 315
<211> 591

```

09657170.092000

```
<220>
<221> misc_feature
<222> (1)...(591)
<223> n = A,T,C or G
```

```
<210> 316
<211> 591
<212> DNA
<213> Homo sapien
```

```
<210> 317
<211> 323
<212> DNA
<213> Homo sapien
```

```
<210> 318
<211> 591
<212> DNA
<213> Homo sapien
```

<400> 318

```
<210> 319
<211> 591
<212> DNA
<213> Homo sapien
```

<400> 319

gaattcggca	cgaggttgct	gctaagcgaa	cgcccttttg	agcttacgga	ggcctttctga	60
aagacttcac	tgtactgac	ttgtctgaat	ttgctgccaa	ggctgccttg	tctgctggca	120
aagtctcacc	tgaacagtt	gacagtgtga	ttatgggcaa	tgtcctgcag	agtctcttcag	180
atgctatata	tttggaagg	catgttggtt	tgcgtgtggg	aatccaaaag	gagacccag	240
ctctcacgat	taataggtc	tgtggttctg	gttttcagtc	cattgtgaat	ggaatgtcagg	300
aaattttgtgt	taaagaagct	gaagtgtgtt	tatgtggagg	aaccgaaagc	atgagccaag	360
ctccctactg	tgtcagaaat	gtgcgttttg	gaaccaagct	tggatcagat	atcaagcttg	420
aagattcttt	atgggtatca	ttacagatc	agcatgtcca	gtccccctg	gcaatgactg	480
cagagaattct	tgtgttaaaa	cacaaaaata	gcagagaaga	atgtgacaaa	tatgcctgc	540
aqtcacagca	qagatqgaaa	qctqctaata	atgctqgcta	ctttaatgat	g	591

```
<210> 320
<211> 591
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(591)
<223> n = A,T,C or G
```

<400> 320

gggtccggcg	tctgcagggg	tcgccgagct	aaccctggc	taggcgagtg	gggcggggcg	60
gccggcacca	tgtcgaggca	ggcgaaccgt	ggcaccgaga	gcaagaaaat	gagctctgag	120
ctcttcacc	tgacctatgg	tgccctggtc	accagctat	gtaaggacta	tgaaaatgat	180
gaagatgtga	ataaacagct	ggacaaaatg	ggctttaaca	ttggagtccg	gctgattgaa	240
gatttcttgg	ctcgggtcaa	tgtttgggag	tgccatgact	ttcgggaaac	tcgcgattgc	300
attgccaaag	tggcgttcaa	ggtgactttg	ggcatcactc	caagcattac	taattggagc	360
ccagctggtg	atgaattctc	cctcattttg	gaaaataacc	ccttggtgga	ctttgtggaa	420
cttcctgata	accactcatc	ccttatttat	tccaatctct	tgtgtggggg	gttgcgggga	480

<220>
 <221> misc_feature
 <222> (1)...(463)
 <223> n = A,T,C or G

<400> 329
 caagttgcac attttaattt acaattttta ccaataaaaa ggattagttt acaaaaaggg 60
 aagtccttta tacaaaataa ggacaatttg taaaganaat ccactgtcat gttttgcctt 120
 gtcaagtcaa aactcaaata gcttggtttg gtaaaattat tccagaaaca taatccagac 180
 aaaatcaata acgtcatcag cttcctaacc atgtttaana ggaataactt catgaacatt 240
 ttgccttgaa ctgaanagtt ctaaatactt gtaaaccttt aggaaaaaat gactgctcgc 300
 aggcagcttg actggtaaga gggtaaccca nagactccgg gtcactcact gtcagaatat 360
 tcttatacat acaatgagtc tccacgcctg tacaatgagt gtcgtgcaac ataattggag 420
 taatggcctc taaaatttta caagtaact ttattgnggc ccc 463

<210> 330
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 330
 taattataga tctacaaaat atgaaatgta ttccaagaat gcagaaaaac catctagaag 60
 caaaaggact ataaaacaaa aacagagaag aaaattcatg gctaaaccag ctgaagaaca 120
 gcttgatgtg ggacagtcta aagatgaaaa catacatata tcacatatta cccaagacga 180
 atttcaaaga aattcagaca gaaatatgga agagcatgaa gagatgggaa atgattgtgt 240
 ttccaaaaaa acagatgcc a cctgtgggaa gcaagaaaag tagcactaga aaagataagg 300
 aagaatctaa aaagaagcgc ttttccagtg agtccaagaa caaacttgn cctgaagaag 360
 tgacttcaac tgtcacgaaa agtcgaanaa tttccangcg tccatctgat tgggtgggtg 420
 taaaancaga ggagagtcct gtttatagca attcttcagt aagaaatgaa ttaccaantg 480
 catcacaatn ntgcccgaa 500

<210> 331
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 331
 tctctctctc tctcaaaatt acagtgttca ttgtcattga cctcagcagc aaatttgact 60
 tgaattcact taggatcgca ggaatcaggg gaaagtgatt tttaaagggtg tttctccagc 120
 acattttaag aaaagggacc aaaagttatt ttagcttcct caatagattg catgttgctt 180
 attaggataa taaattaata ttaaattgcaa tatatgtctt gnctttatta tggcatctat 240
 ttaggagttg ttcaaatcac tgcagtaggg ctctgcaaat aaaataatgn aacctattat 300
 catggatcta atgnactgna actttatcag tgaaaggnaa aatctcaaat aacaagtaca 360
 aacattggac aattacctat aaagatttgc aaaaggaaaa tttttccata gatttcattc 420

000369 0272959

ttggcatttt gtaaagacga cctgcagnc cctgtttgn aactttttta ataaaataga 480
catctgttta ctg 494

<210> 332
<211> 538
<212> DNA
<213> Homo sapien

<400> 332
aaagaacaaa tggaacgcga tgggtgttct gaacaagagt ctcaaccgtg tgcatttatt 60
gggataggaa atagtgacca agaaatgcag cagctaaact tggaaggaaa gaactattgc 120
acagccaaaa cattgtatat atctgactca gacaagcgaa agcacttcat gttgtctgta 180
aagatgttct atggcaacag tgatgacatt ggtgtgttcc tcagcaagcg gataaaagtc 240
atctccaaac ctctccaaaa gaagcagtca ttgaaaaatg ctgacttatg cattgcctca 300
ggaacaaagg tggctctgtt taatcgacta cgatccaga cagttagtac cagatacttg 360
catgtagaag gaggtaatth tcatgccagt tcacagcagt ggggagcctt ttttattcat 420
ctcttgatg atgatgaatc agaaggagaa gaattcacag tccgagatgg ctacatccat 480
tatggacaaa cagtcaaaact tgtgtgctca gttactggca tggcactccc aagattga 538

<210> 333
<211> 499
<212> DNA
<213> Homo sapien

<400> 333
ctcagcctgc gggactgctc ggctcggctt ctaggcgggtt ttgatgaaca cctggcttta 60
ttcttgcaat gaagaaagggt tctcaacaaa aaatattctc caaagcaaag ataccatcat 120
catctcactc tcctatccca tcatctatgt ccaatatgag atctaggtca ctttcacctt 180
tgattggatc agagactcta ctttttcatt ctggaggaca gtgggtgtgag caagttgaga 240
ttgcagatga aaacaatatg cttttggact atcaagacca taaaggagct gattcacatg 300
caggagttag atatatatac gaggccttca ttaaaaaact tactaaacag gataatttgg 360
ctttgataaa atctctgaac ctttcacttt ctaaagacgg tggcaagaaa ttttaagtata 420
ttgagaattt ggaaaaatgt gttaaacttg aagtactgaa tctcagctat aatctaatag 480
ggaagattga aaagtcgga 499

<210> 334
<211> 561
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(561)
<223> n = A,T,C or G

<400> 334
ttcccggtag ttcagctgca catgaataga acagcaatga gagccagtca gaaggacttt 60
gaaaattcaa tgaatcaagt gaaactcttg aaaaaggatc caggaaacga agtgaagcta 120
aaactctacg cgctatataa gcaggccact gaaggacctt gtaacatgcc caaaccaggt 180
gtatttgact tgatcaacaa ggccaaatgg gacgcatgga atgcccttgg cagcctgccc 240
aaggaagctg ccaggcagaa ctatgtggat ttggtgtcca gtttgagtcc ttcattggaa 300
tcctctagtc aggtggagcc tggaaacagac aggaaatcaa ctgggtttga aactctggtg 360
gtgacctccg aagatggcat cacaagatc atgttcaacc cggcccaaaa agaaaaatgc 420
cataaacact gagatgtatc atgaaattat gcgtgcactt aaagctgcca gcaaggatga 480

000260"02729960

ctcaatcatc actgttttaa cangaaatgg tgactattac agtagtgga atgatctgac 540
taacttcnct gatattcccc c 561

<210> 335
<211> 551
<212> DNA
<213> Homo sapien

<400> 335
aagctggtca tggttgggga gaccaccaac tcccgcggcc agcggctgcc ccagaaggga 60
gacgtggaga tgctgtgcgg cgggcccggc tgccagggtc tcagcggcat gaaccgcttc 120
aattcgcgca cctactccaa gttcaaaaac tctctggtgg ttcccttcct cagctactgc 180
gactactacc ggccccggtt ctctctctctg gagaatgtca ggaactttgt ctcttcaag 240
cgctccatgg tcctgaagct caccctccgc tgcttggtcc gcattgggta tcagtgcacc 300
ttcggcgtgc tgcaggccgg tcagtacggc gtggcccaga ctaggaggcg ggccatcatc 360
ctggccgcgg cccctggaga gaagctccct ctgttcccgg agccactgca cgtgtttgct 420
ccccgggcct gccagctgag cgtggtgggt ggatgacaag aagtttgtga gcaacataac 480
caggttgagc tcgggtcctt tccggaccat acggtgcgag aaacgatgtc cgacctgccg 540
gaagtgcgga a 551

<210> 336
<211> 540
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(540)
<223> n = A,T,C or G

<400> 336
aggtctatgt ctactgaagg caataaacga ggaatgatcc agcttattgt tgcaaggaga 60
ataagcaagt gcaatgagct gaagtcacct gggagccccc ctggacctga gctgcccatt 120
gaaacagcgt tggatgatag agaacgaaga atttcccatt ccctctacag tgggattgag 180
gggcttgatg aatcgcccag cagaaatgct gccctcagta ggataatggg taaataccag 240
ctgtccccta cagtgaatat gcccgaagat gacactgtca ttatagaaga tgacaggttg 300
ccagtgttc ctccacatct ctctgaccag tcctcttcca gctcccatga tgatgtgggg 360
tttgtgacgg cagatgctgg tacttgggcc aaggctgcaa tcagtgattc agccgactgc 420
tctttgagtc cagatgttga tccagttctt gcttttcaac gaaaaaggat ttggacgtca 480
gaagtatgtc agaaaaacgc accaaagcaa ttttcanatg ccagtcaatt ggatttcgtt 540

<210> 337
<211> 422
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(422)
<223> n = A,T,C or G

<400> 337
gcagcaggaa cagttacagc agcagcagca acagcagctg ttgcaacagc agcaggaaca 60
attgcagcag caacaactgc agcctctctc cctggagccc gaggaggagg aagaggtgga 120

000260.0479950

<220>
 <221> misc_feature
 <222> (1)...(427)
 <223> n = A,T,C or G

<400> 346
 agatggcggt cgccgtgaga actttgcagg aacagctgga aaaggccaaa gagagtctta 60
 agaacgtgga tgagaacatt cgcaagctca ccgggcgga tccgaatgac gtgaggccca 120
 tccaagccag attgctggcc ctttctggtc ctggtggagg tagaggacgt ggtagtttat 180
 tactgaggcg tggattctca gatagtggag gaggacccc agccaaacag agagacctg 240
 aaggggcagt cagtaggctg ggcggggagc gtcggaccag aagagaatca cgccaggaaa 300
 gcgacccgga ggatgatgat gttaaaaagc cagcattgca gtcttcannt gtagctacct 360
 cccaaagagc gccccacgta gagaccttat ccagggatca aaattttgga tgaaaaaggg 420
 gaaagcc 427

<210> 347
 <211> 280
 <212> DNA
 <213> Homo sapien

<400> 347
 cacagaaagt tctccgctcc cagacatggg tccctcggtt tectgcctcg gaagcgcagc 60
 agcaggcatc gtgggaaggt gaagagcttc cctaaggatg acccgctcaa gccggtccac 120
 ctcacagcct tctgggata caaggctggc atgactcaca tcgtgcggga agtcgacagg 180
 ccgggatcca aggtgaacaa gaaggaggtg gtggaggctg tgaccattgt ayagacacca 240
 cccatggtgg ttgtgggcat tgtgggctac gtggaaacc 280

<210> 348
 <211> 411
 <212> DNA
 <213> Homo sapien

<400> 348
 caactatgat gtgcctgaaa aatgggcacg attctatact gcagaagtag ttcttgcat 60
 ggatgcaatc cattccatgg gttttattca cagagatgtg aagcctgata acatgctgct 120
 ggataaatct ggacatttga agttagcaga ttttggtact tgtatgaaga tgaataagga 180
 aggcattgta cgatgtgata cagcggttgg aacacctgat tatatttccc ctgaagtatt 240
 aaaatcccaa ggtggtgata gttattatgg aagagaatgt gactggtggt cggttgggt 300
 atttttatac gaaatgcttg taggtgatac acctttttat gcagattctt tggttggaac 360
 ttacagtaaa attatgaacc attaaaaatt cacttacctt tectgatgat a 411

<210> 349
 <211> 408
 <212> DNA
 <213> Homo sapien

<400> 349
 gatgggcac tctcgggaca actggcacaa gcgcccga aaacgggggca agagaaagcc 60
 ctaccacaag aagcggaagt atgagttggg gcgcccagct gccaacacca agattggccc 120
 ccgcccacac cacacagtcc gtgtgcgggg aggttaacaag aaataccgtg ccctgaggtt 180
 ggacgtgggg aatttctcct ggggctcaga gtgtgtgact cgtaaaacaa ggatcatcga 240
 tgttgtctac aatgcatcta ataacgagct ggttcgtacc aagaccctgg tgaagaattg 300
 catcgtgctc atcgacagca caccgtaccg acagtgttac gagtcccact atgcgctgcc 360
 cctgggcccgc aagaaggag ccaaactgac ttctgaggaa gaagaaaa 408

000250 0479950

<210> 350
 <211> 409
 <212> DNA
 <213> Homo sapien

<400> 350
 gggtccccc gctctgggta cccggctctg catcgctcg ccatgatggg ccatcgtcca 60
 gtgctcgtgc tcagccagaa cacaaagcgt gaatccggaa gaaaagttca atctggaaac 120
 atcaatgctg ccaagactat tgcagatata atccgaacat gtttgggacc caagtccatg 180
 atgaagatgc ttttggaccc aatgggagggc attgtgatga ccaatgatgg caatgccatt 240
 cttcgagaga ttcaagtcca gcatccagcg gccaaagtcca tgatcgaaat tagccggacc 300
 caggatgaag aggttggaga tgggaccaca tcagtaatta ttcttgcagg ggaaatgctg 360
 tctgtagctg agcacttcct ggagcagcag atgcacccaa caggtgggg 409

<210> 351
 <211> 226
 <212> DNA
 <213> Homo sapien

<400> 351
 aatcccaaac atataactga actcctcaca cccaattgga ccaatctatc accctataga 60
 agaactaatg ttagtataag taacatgaaa acattctcct ccgcataagc ctgctgcaga 120
 ttaaaacact gaactgacaa ttaacagccc aatatctaca atcaaccaac aagtcattat 180
 taccctcact gtcaacccaa cacaggcatg ctcataagga aagggtt 226

<210> 352
 <211> 410
 <212> DNA
 <213> Homo sapien

<400> 352
 gcggaggggc tggtctgggca ggagggggtt gcggggcagc agggccgcgg ccatggggag 60
 cttgaaggag gagctgctca aagccatctg gcacgccttc accgcactcg accaggacca 120
 cagcggcaag gtctccaagt cccagctcaa ggtcctttcc cataacctgt gcacggtgct 180
 gaaggttcct catgacccag ttgcccttga agagcacttc agggatgatg atgaggggtcc 240
 agtgtccaac cagggtcaca tgccttattt aaacagggttc attttggaaa aggtccaaga 300
 caactttgac aagattgaat tcaataggat gtgttggacc ctctgtgtca aaaaaaacct 360
 cacaaagaat ccctgctca ttacagaaga agatgcattt aaaatatggg 410

<210> 353
 <211> 380
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 353
 gagtttattt agaaagtatc atagtgtaaa caaacaatt gtaccacttt gattttcttg 60
 gaatacaaga ctctgatgc aaagctgaag ttgtgtgtac aagactcttg acagttgtgc 120
 ttctctagga ggntgggttt ttttaaaaaa agaattatct gngaaccata cgtgattaat 180

0936770 092000

cttgccggagg ctgcagctta acgccggaccc tgagaagcct ggcgcttncn gctggaactt 240
 cttggcgcg gacctggggc ggtaatttga gtggccctga gtcatttcta caccatccag 300
 gccaccaca cgactaagct cacaagaagg ctgaactnnc tgattctnaa cctagaanta 360
 cgtgcatcta tcaagtgcng aagaaatgac aacataccac tggcaactct g 411

<210> 362

<211> 511

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 362

cggggggaccg ggctgccttg gccccctcagc gctcgcgtct tttccggcag ttggaacgct 60
 tctgtttgtc ctcacccgta accgcctgtt gccccctgtc tcagagtcct tcacgcgtcc 120
 cctcccgctt ttggctcggt ggctgcggcc gccggggctt cgcagcctt caagtcgaga 180
 ctactggcgg aaggggcgctc tgcggtcttc cgcgctccc agccctgctt ctccctgggc 240
 tctgccatgg caatgacagg ctcaacacct tgctcatcca tgagtaacca cacaaggaa 300
 agggtgacaa tgaccaaaag tgacactgga gaatttttat agcaacctta tcgctcacat 360
 gaagaacgag aaatgagaca aaagaagtta gaaaaagggg atggaagaag aaggcctaaa 420
 aaaatgaagg agaaaaccaa cttccgaaga tcaaccacat tgcttcggaa anggaaacaa 480
 aantttcttt cgtttgaaan aaaaacaaan a 511

<210> 363

<211> 401

<212> DNA

<213> Homo sapien

<400> 363

caggatcttg ggagaaagag ccccatccct tctctctctg ccaccatttc ggacaccccg 60
 cagggactcg ttttgggatt cgcactgact tcaaggaagg acgcgaaccc ttctctgacc 120
 ccagctcggg cggccacctg tctttgcgcg ggtgaccctt ctctcatgac cctgcggtgc 180
 cttgagccct ccgggaatgg cggggaaggg acgcggagcc agtgggggac cgcggggtcg 240
 gcggaggagc catccccgca ggccgcgcgt ctggcgaaagg ccctgcggga gctcggtcag 300
 acaggatggt actggggaag tatgactgtt aatgaagcca aagagaaatt aaaagaggca 360
 ccagaaggaa ctttcttgat tagagatagc tcgcattcag a 401

<210> 364

<211> 401

<212> DNA

<213> Homo sapien

<400> 364

agtcaaagggt ttctttttccc tttttaccat ggtttctaca aaaataacct tcaggaaaaa 60
 gaaaaatcagg aaaaaaattt tttttcaata atcttattcc ctatattaaa tttagatttga 120
 agaggattaa cgttgtttta gtttgggtcc agatcagcct tataacaacat ttctaaactc 180
 atttgtactt ttaaaaaatt taaacacaga cttctaaaat tacttgatgt aagtaattta 240
 aatcacttat gaccaagtta ttaaccttat gaatcagaag tctgaccctt gtaggaaatt 300
 atattcacat ataaagtaca tcagatcttt gccatatatt gatggttatt atgcataaac 360
 acattgagtt gtgttggaag cagatttata aacctgcatg t 401

000000"0474950


```
<210> 369
<211> 174
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(174)
<223> n = A,T,C or G
```

<400> 369

gcgagnnggg	cgccaagcgc	ggggccggag	cggccttccc	ggagtccttt	gcgcggcacc	60
tggcgacaaa	atggctgccc	gagggagacg	ggcggagcct	cagggccggg	aggtccggg	120
ccccqcqggc	qgtggcqqtg	qcgggagccg	ttgggtctgag	tcgggatcgg	ggac	174

```
<210> 370
<211> 375
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(375)
<223> n = A,T,C or G
```

<400> 370						
tgcttttcca	actttattta	gaaaaacaaa	tccaggtccc	agtgccccct	gtaccctccc	60
cgaccccagc	cataatttaa	ataacttana	gacagagttg	gagggagggg	acagganagg	120
ttggggtcac	ggtggaagga	ggaaganagc	ccactacagc	cgccgcagcg	cccgtctctt	180
gtccgtcttt	ttcttggcgc	ccagcttctt	atcgcgctcg	ccagcatgct	tnttggccat	240
gggaccctca	gccccctccg	ggcccccttg	ggccccaggg	tcggtggagg	aagcttcagt	300
gccaactggc	agggcccgac	cggtcttcgc	cctgccgcgtg	ggcccgcccg	cgcccccgctg	360
gtactctgtg	aggaq					375

```
<210> 371
<211> 375
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(375)
<223> n = A,T,C or G
```

<400> 371						
taaattctaa	aaaatatttt	aataacttgaa	aactttctaaa	acaaaaggta	aggtaacatg	60
ttctttcaaa	agtgaatttc	acatgcaaac	cattaattat	atttatttta	ctgngagata	120
aaagcaaaac	ataacattcg	gagaaagaga	ccagtaactg	acctatttta	tttatattat	180
attaatgnga	atcctcatta	gaaatgtgat	aacgtttatg	cacaaacaaa	accgtgggca	240
gaacaactcc	agcaatgcag	gggcgcceat	accgggttac	aagggatgtc	cagcattgtg	300
ttccctggaa	cactcanagt	ctgcactttt	cctgcaaatg	ggaccatgtc	tgattattta	360

ttatgaaaga acact

375

<210> 372

<211> 164

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)..(164)

<223> n = A,T,C or G

<400> 372

cgctctgtnt cctcaacctc tacctggcgg aggttatatg taaagtcaga tgtgccactg	60
aacttgacag acacaaaatt ctactgcatt tgggctttat aatggcaagc ctgctctttt	120
tagtggtgaa cttgacttgc gcaatgctag ttcattggaga tgct	164

<210> 373

<211> 401

<212> DNA

<213> Homo sapien

<400> 373

gcgctgttcg cctttgccta cctgcagctg tggcggctgc tcctgtaccg cgagcggcgg	60
ctgagttacc agagcctctg cctcttctct tgtctcctgt ggcagcgcct caggaccacc	120
ctcttctccg ccgccttctc gctcagcggc tccctgcctt tgcctcggcc gcccgctcac	180
ctgcacttct tccccactg gctgctctac tgcttccctt cctgtctcca gttctccacg	240
ctctgtctcc tcaacctcta cctggcggag gttatatgta aagtcagatg tgccactgaa	300
cttgacagac acaaaattct actgcatttg ggctttataa tggcaagcct gctcttttta	360
gtggtgaact tgacttgccg aatgctagtt catggagatg t	401

<210> 374

<211> 401

<212> DNA

<213> Homo sapien

<400> 374

ggaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagtctg	60
acactggtaa cctgtgtatg gtgactggag gtgctaacct aggaagaatt ggtgtgatca	120
ccaacagaga gaggcacctt ggatcttttg acgtggttca cgtgaaagat gccaatggca	180
acagctttgc cactcgactt tccaacattt ttgttattgg caagggaac aaacctgga	240
ttctctctcc ccgaggaaaag ggtatccgcc tcaccattgc tgaagagaga gacaaaagac	300
tggcggccaa acagagcagt gggtgaaatg ggtccctggg tgacatgtca gatctttgta	360
cgtaattaaa aatattgttg caggattaat agcaaaaaaa a	401

<210> 375

<211> 401

<212> DNA

<213> Homo sapien

<400> 375

gagcggagtc cgctggctga cccgagcgcct ggtctccgcc gggaaccctg gggcatggag	60
aggtctgagt acctcggccg cggcgacgc tgcatcgccg agccaggccg aggacgtgag	120
ggtggagggc tcctttcccg tgacctgct tccgggagac ggtgtggggc ctgagctgat	180

09567470 092000

```
<210> 376
<211> 284
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G
```

```
<210> 377
<211> 401
<212> DNA
<213> Homo sapien
```

```
<210> 378
<211> 401
<212> DNA
<213> Homo sapien
```

```
<210> 379
<211> 401
<212> DNA
<213> Homo sapien
```

gagcagccccc	cggcggctga	aagccggggc	agaagtgtctg	gtctcggtcg	ggattccggg	60
cttggtccca	cagagcgcg	gactgcggt	ggagggaaga	ggttttgac	gcgctggcct	120
cccgcccatg	tgcattgcag	cattatttca	gttcaaaatg	aactatgatc	ctggcaccgc	180
cagcctcatc	gaggacattg	acaaaaagca	cttggtcttc	cttcgatgatg	gaaggacact	240
tataggcttt	ttaagaagca	ttgatcaatt	tgcaaaacta	gtgctacatc	agactgtgga	300

```
<210> 383
<211> 491
<212> DNA
<213> Homo sapien
```

```
<210> 384
<211> 491
<212> DNA
<213> Homo sapien
```

```
<210> 385
<211> 483
<212> DNA
<213> Homo sapien
```

<210> 386

<400> 386

```
<210> 387
<211> 491
<212> DNA
<213> Homo sapien
```

<400> 387

```
<210> 388
<211> 491
<212> DNA
<213> Homo sapien
```

<400> 388

```
<210> 389
<211> 511
<212> DNA
<213> Homo sapien
```

 $\langle 220 \rangle$

<221> misc feature

<223> n = A, T, C or G

tactgatatc	tctttaatac	tttcatacatt	caagtttggt	canaacatta	caagaggcat	60
gaaagaaaaa	ataattccat	ttttaaaact	ctgtctgtcc	aaagtataac	atatgaaacc	120
atgccattat	ctnttaggaa	acaaaagcat	tcaaaattaa	tttggtatta	aagttcaaga	180
ttcanactaa	cctcaagta	cggcatgtgc	agtgtttaag	tgaanaagt	attttcattc	240
caattatttt	acananatgc	tggagtgacg	tgtgcaattt	gaaatattca	aatcctttta	300
ggnttctgaa	ctaagtgttt	aaatgaaaac	tgaaatgctg	catagtttca	gtggcctttca	360
attttctgtt	tgatctcaga	aatatatgga	tgatctttgc	cgtgagctac	ttccatgatt	420
gcaatggcct	tcttcagggc	tttctccctc	gcggctttgt	gttcaggcc	catgtagagt	480
ctccctagct	tcaaccacat	ggagggccacg	t			511

<211> 1984

<213> Homo sapien

cctggggtta	gaggctgggg	tgggtgggg	gtaagggggc	agtcttctc	cccttcgacg	60
gcggctccga	gtccagcccc	ttccttcccg	cgctcgctcg	cccgccccc	agccccctca	120
tgagggtgtc	cgtgccgggt	ccggcggccg	ctgccgcgcc	cgcagccggc	cgcgagccct	180
ccacgcccg	cgggggcagc	ggaaggcgag	gcgcgctgc	tgcagcctca	ggcgccgcg	240
tgccgggctc	cgtgcagttg	gcgctgagcg	tcttgacgc	cctgctctac	gccgcgctgt	300
tcgcctttgc	ctacctgcag	ctgtggggcg	tgtctctgta	ccgcgagcgg	cggtgagtt	360
accagagcct	ctgcctcttc	ctctgtctcc	tgtgggcagc	gtcaggacc	acctctctc	420
ccgcgcctt	ctgcctcagc	ggctccctgc	ccttgctcgc	gccgcgcgct	caactgcact	480
tcttcccca	ctggctgctc	tactgcttcc	cctctgtct	ccagttctcc	acgtctgtc	540
tcctcaacct	ctacctggcg	gaggttatat	gtaaagtcag	atgtgccact	gaacttgaca	600
gacacaaaat	tctactgcat	ttgggcttta	taatggcaag	cctgctcttt	ttagtgggtga	660
acttgacttg	cgcaatgcta	gttcatggag	atgtcccaga	aaatcagttg	aagtggactg	720
tgtttggtcg	agcattaatt	aatgatagcc	tgtttatct	ttgtgccatc	tctttagttg	780
gttacatatg	caaaattaca	aaaatgtcat	cagctaattg	ctacctcgaa	tcaaagggtta	840
tgtctctgtg	ccgactgtc	atcgtgggct	ctgtagtcat	tcttctgtac	tcttccagag	900
cttggtataa	tttggtggtg	gtccacctat	ctcaggatac	attagaagtg	ccatttaatt	960
atggctggga	taattcttca	gataaggctc	atgtagaaga	cataagtgga	gaagagtata	1020
tagtatttgg	aatggtcctc	ttctgtggg	aacatgtgcc	agcatggctg	gtggtactgt	1080
ttttccgggc	acagagatta	aaccagaatt	tggcacctgc	tggcatgata	aatagtcaca	1140
gttatagttc	cagagcttac	tttttcgaca	atccaagacg	atatgatagt	gatgatgacc	1200
tgccaagact	gggaagtcca	agagaaggaa	gtttacccaa	ttcgcaagtg	ttgggctggt	1260
atggcaccat	gactgggtgt	ggcagcagca	gttacacagt	cactccccac	ctgaatggac	1320
ctatgacaga	tactgctcct	ttgctcttta	ctgtgtagta	tttagatttg	aacaatcatc	1380
atagcttata	tgtgacacca	caaaactgac	agcatcacca	agtcattggt	cttgagttgt	1440
ttttcataaa	tgtgtatat	caattgtgtt	aaattccatc	tacataaaca	ttccattatc	1500
tgttgcaact	gaaaaaaaaa	tctggaagtg	tggtgtgttt	tggtaaataa	cacagctatt	1560
atTTTTgacc	tcttcatagt	aaaatgaagt	aaaatggaaa	gtttggagta	ggagaaaaga	1620
gagattagat	cttaaggcac	ttgatggcct	ccaaaaatcc	tgactttgga	acatcaaattg	1680
catatgtgca	cttttatctt	tgttctgagt	cactgcagtc	cccaaagtca	tatgccaatg	1740
ttcacactga	aatactgtat	tgtacaccaa	actggaaggc	aattttccta	tgaaaatcaa	1800
agccggtata	ttcattggta	tgtctctatac	agatatctta	ataaaaaattt	tatagtgtga	1860
acagtgacaca	gagttaaggc	ataaaaaatgt	atcattcttt	ataaaaaatct	actgaaaatg	1920
tgtaatcatt	gaagacagtt	cttttaagca	tgatttttaa	atagcaactg	aaattcaatc	1980
ttta						1984

<210> 391
 <211> 429
 <212> PRT
 <213> Homo sapien

<400> 391

Met Arg Val Ser Val Pro Gly Pro Ala Ala Ala Ala Ala Pro Ala Ala
 5 10 15

Gly Arg Glu Pro Ser Thr Pro Gly Gly Gly Ser Gly Gly Gly Gly Ala
 20 25 30

Val Ala Ala Ala Ser Gly Ala Ala Val Pro Gly Ser Val Gln Leu Ala
 35 40 45

Leu Ser Val Leu His Ala Leu Leu Tyr Ala Ala Leu Phe Ala Phe Ala
 50 55 60

Tyr Leu Gln Leu Trp Arg Leu Leu Leu Tyr Arg Glu Arg Arg Leu Ser
 65 70 75 80

Tyr Gln Ser Leu Cys Leu Phe Leu Cys Leu Leu Trp Ala Ala Leu Arg
 85 90 95

Thr Thr Leu Phe Ser Ala Ala Phe Ser Leu Ser Gly Ser Leu Pro Leu
 100 105 110

Leu Arg Pro Pro Ala His Leu His Phe Phe Pro His Trp Leu Leu Tyr
 115 120 125

Cys Phe Pro Ser Cys Leu Gln Phe Ser Thr Leu Cys Leu Leu Asn Leu
 130 135 140

Tyr Leu Ala Glu Val Ile Cys Lys Val Arg Cys Ala Thr Glu Leu Asp
 145 150 155 160

Arg His Lys Ile Leu Leu His Leu Gly Phe Ile Met Ala Ser Leu Leu
 165 170 175

Phe Leu Val Val Asn Leu Thr Cys Ala Met Leu Val His Gly Asp Val
 180 185 190

Pro Glu Asn Gln Leu Lys Trp Thr Val Phe Val Arg Ala Leu Ile Asn
 195 200 205

Asp Ser Leu Phe Ile Leu Cys Ala Ile Ser Leu Val Cys Tyr Ile Cys
 210 215 220

Lys Ile Thr Lys Met Ser Ser Ala Asn Val Tyr Leu Glu Ser Lys Gly
 225 230 235 240

Met Ser Leu Cys Gln Thr Val Ile Val Gly Ser Val Val Ile Leu Leu
 245 250 255

000250.027990

Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val Val Thr Ile Ser Gln
 260 265 270
 Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp Asp Asn Leu Ser Asp
 275 280 285
 Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu Tyr Ile Val Phe Gly
 290 295 300
 Met Val Leu Phe Leu Trp Glu His Val Pro Ala Trp Ser Val Val Leu
 305 310 315 320
 Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu Ala Pro Ala Gly Met
 325 330 335
 Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr Phe Phe Asp Asn Pro
 340 345 350
 Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg Leu Gly Ser Ser Arg
 355 360 365
 Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly Trp Tyr Gly Thr Met
 370 375 380
 Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr Pro His Leu Asn Gly
 385 390 395 400
 Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr Cys Ser Asn Leu Asp
 405 410 415
 Leu Asn Asn His His Ser Leu Tyr Val Thr Pro Gln Asn
 420 425

<210> 392

<211> 1584

<212> DNA

<213> Homo sapiens

<400> 392

ggaagactgg agcctttgcg gcggcgctgc ccctcccctg gtccccgcga gctcggaggg 60
 cccggctggt gctgcggggg ccccgaggagg ttgaaaacta agcatgggga agagctgcaa 120
 ggtggtcgtg tgtggccagg cgtctgtggg caaaaactca atcctggagc agcttctgta 180
 tgggaaccat gtagtggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240
 cattgagaca gaccgggggg tgcgagagca ggtgcgtttc tatgacaccc gggggctccg 300
 agatggggcc gaactgcccc gacactgctt ctcttgcact gatggctacg tcctggtcta 360
 tagcacagat agcagagagt cttttcagcg tgtggagctg ctcaagaagg agattgacaa 420
 atccaaggac aagaaggagg tcaccatcgt ggtccttggc aacaagtgtg acttacagga 480
 gcagcggcgt gtagaccag atgtggctca gcactgggcc aagtcagaga aggtgaagct 540
 gtgggagggt tcagtggcgg accggcgctc cctctggag ccctttgtct acttgcccag 600
 caagatgacg caaccccaga gcaagtctgc cttcccctc agccggaaga acaagggcag 660
 cggtccttg gatggctgaa gagctgccgt tcctctttca cgatcccagc cccatttcag 720
 tgtctggggc tctggtagat gtgttgaggg caaagtagag gacaagctgt cttcccag 780

```
<210> 393
<211> 191
<212> PRT
<213> Homo sapiens
```

Met Gly Lys Ser Cys Lys Val Val Val Cys Gly Gln Ala Ser Val Gly
5 10 15

Lys Thr Ser Ile Leu Glu Gln Leu Leu Tyr Gly Asn His Val Val Gly
20 25 30

Ser Glu Met Ile Glu Thr Gln Glu Asp Ile Tyr Val Gly Ser Ile Glu
35 40 45

Thr Asp Arg Gly Val Arg Glu Gln Val Arg Phe Tyr Asp Thr Arg Gly
50 55 60

Leu Arg Asp Gly Ala Glu Leu Pro Arg His Cys Phe Ser Cys Thr Asp
65 70 75 80

Gly Tyr Val Leu Val Tyr Ser Thr Asp Ser Arg Glu Ser Phe Gln Arg
85 90 95

Val Glu Leu Leu Lys Lys Glu Ile Asp Lys Ser Lys Asp Lys Lys Glu
100 105 110

Val Thr Ile Val Val Leu Gly Asn Lys Cys Asp Leu Gln Glu Gln Arg
115 120 125

Arg Val Asp Pro Asp Val Ala Gln His Trp Ala Lys Ser Glu Lys Val
130 135 140

Lys Leu Trp Glu Val Ser Val Ala Asp Arg Arg Ser Leu Leu Glu Pro
145 150 155 160

Phe Val Tyr Leu Ala Ser Lys Met Thr Gln Pro Gln Ser Lys Ser Ala
165 170 175

Phe Pro Leu Ser Arg Lys Asn Lys Gly Ser Gly Ser Leu Asp Gly
 180 185 190

<210> 394
 <211> 1937
 <212> DNA
 <213> Homo sapiens

<400> 394
 ccggttcccc cagctctggg taccgggctc tgcacgcggt cgccatgatg ggccatcgctc 60
 cagtgcctcg gctcagccag aacacaaagc gtgaatccgg aagaaaagtt caatctggaa 120
 acatcaatgc tgccaagact attgcagata tcatccgaac atgtttggga cccaagtcca 180
 tgatgaagat gcttttggac ccaatgggag gcatttgtgat gaccaatgat ggcaatgcca 240
 ttcttcgaga gattcaagtc cagcatccag cggccaagtc catgatcgaa attagccgga 300
 cccaggatga agaggttggg gatgggacca catcagtaat tattcttgca ggggaaatgc 360
 tgtctgtagc tgagcacttc ctggagcagc agatgcaccc aacagtgggtg atcagtgcctt 420
 accgcaaggc attggatgat atgatcagca ccctaaagaa aataagtatc ccagtcgaca 480
 tcagtgcacg tgatatgatg ctgaacatca tcaacagctc tattactacc aaagccatca 540
 gtcggtgggtc atctttggct tgcaacattg ccctggatgc tgtcaagatg gtacagtttg 600
 aggagaatgg tcggaaagag attgacataa aaaaatatgc aagagtggaa aagatacctg 660
 gaggcacatc tgaagactcc tgtgtcttgc gtggagtcac gattaacaag gatgtgaccc 720
 atccacgtat gcggcgctat atcaagaacc ctgcatttgt gctgctggat tcttctctgg 780
 aatacaagaa agggagaaagc cagactgaca ttgagattac acgagaggag gacttcaccc 840
 gaattctcca gatggaggaa gagtacatcc agcagctctg tgaggacatt atccaactga 900
 agcccgatgt ggtcatcact gaaaagggca tctcagattt agctcagcac taccttatgc 960
 gggccaatat cacagccatc cgcagagtcc ggaagacaga caataatcgc attgctagag 1020
 cctgtggggc ccggatagtc agccgaccag aggaactgag agaagatgat gttggaacag 1080
 gagcaggcct gttggaatc aagaaaattg gagatgaata ctttactttc atcactgact 1140
 gcaaagaccc caaggcctgc accattctcc tccggggggc tagcaaagag attctctcgg 1200
 aagtagaacg caacctccag gatgccatgc aagtgtgtcg caatgttctc ctggaccctc 1260
 agctggtgcc agggggtggg gctccgaga tggctgtggc ccatgccttg acagaaaaat 1320
 ccaaggccat gactggtgtg gaacaatggc catacagggc tggtgccag gccctagagg 1380
 tcatttctcg taccctgatc cagaactgtg gggccagcac catccgtcta cttacctccc 1440
 ttccgggcca gcacaccag gagaactgtg agacctgggg tgtaaatggt gagacgggta 1500
 ctttgggtga catgaaggaa ctgggcatac gggagccatt ggctgtgaag ctgcagactt 1560
 ataagacagc agtggagacg gcagttctgc tactgcgaat tgatgacatc gtttcaggcc 1620
 acaaaaagaa aggcgatgac cagagccggc aaggcggggc tcctgatgct ggccaggagt 1680
 gagtgtctagg caaggctact tcaatgcaca gaaccagcag agtctcccct tttcctgagc 1740
 cagagtgcga ggaacactgt ggacgtcttt gttcagaagg gatcaggttg gggggcagcc 1800
 cccagtcctt ttctgtccca gtcagtttt ccaaaagaca ctgacatgta attcttctct 1860
 attgtaaggt ttccatttag ttgcttccg atgattaaat ctaagtcatt tgaaaaaaaa 1920
 aaaaaaaaaa actcgag 1937

<210> 395
 <211> 1675
 <212> DNA
 <213> Homo sapiens

<400> 395
 gcgcgaatcg cggtcgcgag ccatggagga ggaggcatcg tccccggggc tgggctgcag 60
 caagccgcac ctggagaagc tgacctggg catcacgcgc atcctagaat cttccccagg 120
 tgtgactgag tgaccatca tagaaaagcc tcctgctgaa cgtcatatga tttcttcctg 180
 ggaacaaaag aataactgtg tgatgcctga agatgtgaag aacttttacc tgatgaccaa 240
 tggcttccac atgacatgga gtgtgaagct ggatgagcac atcattccac tgggaagcat 300

Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu
115 120 125

Gln Gln Met His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu
 130 135 140
 Asp Asp Met Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile
 145 150 155 160
 Ser Asp Ser Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr
 165 170 175
 Lys Ala Ile Ser Arg Trp Ser Ser Leu Ala Cys Asn Ile Ala Leu Asp
 180 185 190
 Ala Val Lys Met Val Gln Phe Glu Glu Asn Gly Arg Lys Glu Ile Asp
 195 200 205
 Ile Lys Lys Tyr Ala Arg Val Glu Lys Ile Pro Gly Gly Ile Ile Glu
 210 215 220
 Asp Ser Cys Val Leu Arg Gly Val Met Ile Asn Lys Asp Val Thr His
 225 230 235 240
 Pro Arg Met Arg Arg Tyr Ile Lys Asn Pro Arg Ile Val Leu Leu Asp
 245 250 255
 Ser Ser Leu Glu Tyr Lys Lys Gly Glu Ser Gln Thr Asp Ile Glu Ile
 260 265 270
 Thr Arg Glu Glu Asp Phe Thr Arg Ile Leu Gln Met Glu Glu Glu Tyr
 275 280 285
 Ile Gln Gln Leu Cys Glu Asp Ile Ile Gln Leu Lys Pro Asp Val Val
 290 295 300
 Ile Thr Glu Lys Gly Ile Ser Asp Leu Ala Gln His Tyr Leu Met Arg
 305 310 315 320
 Ala Asn Ile Thr Ala Ile Arg Arg Val Arg Lys Thr Asp Asn Asn Arg
 325 330 335
 Ile Ala Arg Ala Cys Gly Ala Arg Ile Val Ser Arg Pro Glu Glu Leu
 340 345 350
 Arg Glu Asp Asp Val Gly Thr Gly Ala Gly Leu Leu Glu Ile Lys Lys
 355 360 365
 Ile Gly Asp Glu Tyr Phe Thr Phe Ile Thr Asp Cys Lys Asp Pro Lys
 370 375 380
 Ala Cys Thr Ile Leu Leu Arg Gly Ala Ser Lys Glu Ile Leu Ser Glu
 385 390 395 400
 Val Glu Arg Asn Leu Gln Asp Ala Met Gln Val Cys Arg Asn Val Leu
 405 410 415

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Leu Gly Ser Met Ala Ile Asn Ser Ile Ser Lys Leu Thr Gln Leu Thr
100 105 110

Gln Ser Ser Met Tyr Ser Leu Pro Asn Ala Pro Thr Leu Ala Asp Leu
 115 120 125
 Glu Asp Asp Thr His Glu Ala Ser Asp Asp Gln Pro Glu Lys Pro His
 130 135 140
 Phe Asp Ser Arg Ser Val Ile Phe Glu Leu Asp Ser Cys Asn Gly Ser
 145 150 155 160
 Gly Lys Val Cys Leu Val Tyr Lys Ser Gly Lys Pro Ala Leu Ala Glu
 165 170 175
 Asp Thr Glu Ile Trp Phe Leu Asp Arg Ala Leu Tyr Trp His Phe Leu
 180 185 190
 Thr Asp Thr Phe Thr Ala Tyr Tyr Arg Leu Leu Ile Thr His Leu Gly
 195 200 205
 Leu Pro Gln Trp Gln Tyr Ala Phe Thr Ser Tyr Gly Ile Ser Pro Gln
 210 215 220
 Ala Lys Gln Trp Phe Ser Met Tyr Lys Pro Ile Thr Tyr Asn Thr Asn
 225 230 235 240
 Leu Leu Thr Glu Glu Thr Asp Ser Phe Val Asn Lys Leu Asp Pro Ser
 245 250 255
 Lys Val Phe Lys Ser Lys Asn Lys Ile Val Ile Pro Lys Lys Lys Gly
 260 265 270
 Pro Val Gln Pro Ala Gly Gly Gln Lys Gly Pro Ser Gly Pro Ser Gly
 275 280 285
 Pro Ser Thr Ser Ser Thr Ser Lys Ser Ser Ser Gly Ser Gly Asn Pro
 290 295 300
 Thr Arg Lys
 305

<210> 398
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 398
 agaattcggc acgaggattg cctatctcca gtgcaacaac catcaagtgt gctgaaagtc 60
 ttcagccggt tgctgcagca gtggaagaaa gggctacagg tccagtcttg ataagcaccg 120
 ccgactttga ggggcctatg cccagtgcgc cccagaagc tgaaagtctt ctgcctcaa 180
 ccagcaagga ggagaaggat gaatgtgctc tcatttccac tagcatagca gaagaatgtg 240
 aggtctctgt ttccggtgta gttgttgaaa gtgaaaatga gcgagctggc acagtcattg 300

<210> 402
 <211> 434
 <212> DNA
 <213> Homo sapiens

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Leu	Gly	Lys	Leu	Tyr	Lys	Ile	Pro	Glu	Leu	Gly	Gly	Lys	Asp	Val	Glu
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Phe	Ser	Ala	Ile	Ala	Gln	Ser	Ser	Tyr	Pro	Asp	Ala	Arg	Asp	Lys	Asn		
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Arg	Ser	Thr	Leu	Lys	Trp	Glu	Lys	Glu	Glu	Ala	Leu	Gly	Glu	Met	Ala		
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Glu	Glu	Phe	Pro	Asp	Trp	Thr	Thr	Arg	Val	Lys	Gln	Ile	Ala	Lys	Leu		
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Arg	Asp	Asn	Arg	Ala	Ala	Leu	Arg	Ile	Asn	Lys	Val	Gln	Met	Ser	Asn		
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Ser Gln Pro	Pro Ser Pro Gln	Val Phe Ser	Pro Gly	Ser Ser Asn	Ser
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Arg Ser Pro	Val Val Ser Glu	Gln Thr Ala	Lys Gly	Pro Ile Ala	Ala
	1045	1050		1055	
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	1060	1065		1070	
Gln Arg Gln	Arg Ile Pro Asp	Ser Tyr Ala	Arg Pro	Leu Leu Thr	Pro
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Arg Leu Ser	Val Asp Pro Tyr	Glu Arg Pro	Ala Leu	Thr Pro Arg	Pro
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Gln Thr Pro Arg Pro Pro Gly Pro Gly Leu Ser Asp Thr Phe Ser Arg 1330 1335 1340		
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Val Ala Asp Gln Pro Arg Pro Gly Ser Glu Gly Ser Phe Cys Ala Ser 1380 1385 1390		
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Lys Leu Arg Glu Ile Ile Leu Gln Gln Gln Gln Lys Lys Ile Ala 1445 1450 1455		
Gly Arg Gln Glu Lys Gly Ser Gln Asp Ser Pro Ala Val Pro His Pro		

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Phe Leu Val Pro Pro Gln Gln Ile Gln Gly Ser Gly Val Ser Pro Gln 1555	1560	1565
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Gln Met Asn Asn Pro Val Gly Leu Pro Gln His Phe Ser Pro Gln Ser 1585	1590	1595
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Arg Pro Pro Gln Gly Leu Pro Asn Gln Leu Pro Val His Pro Asp Leu 1665	1670	1675
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Ser Ser Met Val Met Arg Thr Leu Asn His Pro Leu Gly Gly Glu Phe 1700	1705	1710
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Pro Glu Asn Gln Ala Leu Ala Arg Phe Tyr Cys Tyr Thr Glu Arg Thr
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Ile Ala Lys Arg Leu Val Leu Arg Arg Asp Pro Ser Val Lys Arg Thr
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Leu Cys Arg Gly Cys Ser Ser Leu Leu Val Pro Gly Leu Thr Cys Thr
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His Arg Gln Arg Arg Cys Arg Gly Gln Arg Trp Thr Val Gln Thr Cys
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Leu Trp Gly Asp Arg Pro Glu Ala Gln Leu Gly Ser Gln Ala Asp Ser
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Val Gly Gly Gly Cys Leu Val Leu Glu Tyr Trp Arg His Gln Ala Gln
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Gln Arg His Lys Glu Glu Glu Gln Arg Ala Ala Trp Asn Ala Leu Arg
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Asp Glu Val Gly His Leu Ala Leu Ala Leu Glu Ala Leu Gln Ala Gln
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Val Gln Ala Ala Pro Pro Gln Gly Ala Leu Glu Glu Leu Arg Thr Glu
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 Phe Ser Asp Ala Val Ser Ala Ala Thr Asp Glu Glu Arg Leu Ile Lys
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 Ile His Asp Val Ile Gln Gln Leu Pro Pro Pro His Tyr Arg Thr Leu
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 Gly Gln Gly Ala Phe Leu Pro Ala Glu Leu Ser Leu Gln His Pro Glu
 1685 1690 1695
 Thr Gln Ile His Ala Glu
 1700

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<211> 160

<212> PRT

<213> Homo sapiens

<400> 435

Pro Phe Gln Gln Val Gly Arg Cys Asn Pro Ser Pro Gln Thr Arg Pro
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Gly Pro Ala Ser Lys Val Lys Gln Asp Met Pro Pro Pro Gly Gly Tyr
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Gly Pro Ile Asp Tyr Lys Arg Asn Leu Pro Arg Arg Gly Leu Ser Gly
 35 40 45

Tyr Ser Met Leu Ala Ile Gly Ile Gly Thr Leu Ile Tyr Gly His Trp
 50 55 60

Ser Ile Met Lys Trp Asn Arg Glu Arg Arg Arg Leu Gln Ile Glu Asp
 65 70 75 80

Phe Glu Ala Arg Ile Ala Leu Leu Pro Leu Leu Gln Ala Glu Thr Asp
 85 90 95

Arg Arg Thr Leu Gln Met Leu Arg Glu Asn Leu Glu Glu Glu Ala Ile
 100 105 110

Ile Met Lys Asp Val Pro Asp Trp Lys Val Gly Glu Ser Val Phe His
 115 120 125

Thr Thr Arg Trp Val Pro Pro Leu Ile Gly Glu Leu Tyr Gly Leu Arg
 130 135 140

Thr Thr Glu Glu Ala Leu His Ala Ser His Gly Phe Met Trp Tyr Thr
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<210> 436

<211> 396

<212> PRT

<213> Homo sapiens

<400> 436

Arg Ala Gln Glu Ala Ala Ala Ala Ala Asp Gly Pro Pro Ala Ala
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Asp Gly Glu Asp Gly Gln Asp Pro His Ser Lys His Leu Tyr Thr Ala
 20 25 30

Asp Met Phe Thr His Gly Ile Gln Ser Ala Ala His Phe Val Met Phe
 35 40 45

Phe Ala Pro Trp Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn
 50 55 60

Asp Leu Gly Asp Lys Tyr Asn Ser Met Glu Asp Ala Lys Val Tyr Val
 65 70 75 80

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Ala	Lys	Val	Asp	Cys	Thr	Ala	His	Ser	Asp	Val	Cys	Ser	Ala	Gln	Gly	
				85					90						95	
Val	Arg	Gly	Tyr	Pro	Thr	Leu	Lys	Leu	Phe	Lys	Pro	Gly	Gln	Glu	Ala	
			100					105					110			
Val	Lys	Tyr	Gln	Gly	Pro	Arg	Asp	Phe	Gln	Thr	Leu	Glu	Asn	Trp	Met	
		115					120					125				
Leu	Gln	Thr	Leu	Asn	Glu	Glu	Pro	Val	Thr	Pro	Glu	Pro	Glu	Val	Glu	
	130					135					140					
Pro	Pro	Ser	Ala	Pro	Glu	Leu	Lys	Gln	Gly	Leu	Tyr	Glu	Leu	Ser	Ala	
145					150					155					160	
Ser	Asn	Phe	Glu	Leu	His	Val	Ala	Gln	Gly	Asp	His	Phe	Ile	Lys	Phe	
				165					170					175		
Phe	Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Ala	Leu	Ala	Pro	Thr	Trp	Glu	
		180						185					190			
Gln	Leu	Ala	Leu	Gly	Leu	Glu	His	Ser	Glu	Thr	Val	Lys	Ile	Gly	Lys	
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Val	Asp	Cys	Thr	Gln	His	Tyr	Glu	Leu	Cys	Ser	Gly	Asn	Gln	Val	Arg	
	210					215					220					
Gly	Tyr	Pro	Thr	Leu	Leu	Trp	Phe	Arg	Asp	Gly	Lys	Lys	Val	Asp	Gln	
225					230					235					240	
Tyr	Lys	Gly	Lys	Arg	Asp	Leu	Glu	Ser	Leu	Arg	Glu	Tyr	Val	Glu	Ser	
				245					250					255		
Gln	Leu	Gln	Arg	Thr	Glu	Thr	Gly	Ala	Thr	Glu	Thr	Val	Thr	Pro	Ser	
			260					265					270			
Glu	Ala	Pro	Val	Leu	Ala	Ala	Glu	Pro	Glu	Ala	Asp	Lys	Gly	Thr	Val	
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Leu	Ala	Leu	Thr	Glu	Asn	Thr	Phe	Asp	Asp	Thr	Ile	Ala	Glu	Gly	Ile	
	290					295					300					
Thr	Phe	Ile	Lys	Phe	Tyr	Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Thr	Leu	
305					310					315					320	
Ala	Pro	Thr	Trp	Glu	Glu	Leu	Ser	Lys	Lys	Glu	Phe	Pro	Gly	Leu	Ala	
				325					330					335		
Gly	Val	Lys	Ile	Ala	Glu	Val	Asp	Cys	Thr	Ala	Glu	Arg	Asn	Ile	Cys	
			340					345					350			
Ser	Lys	Tyr	Ser	Val	Arg	Gly	Tyr	Pro	Thr	Leu	Leu	Leu	Phe	Arg	Gly	
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Gly Lys Lys Val Ser Glu His Ser Gly Gly Arg Asp Leu Asp Ser Leu
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His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu
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<212> PRT
<213> Homo sapiens

<400> 437
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Val Glu Met Met Ala Asp Met Tyr Asn Arg Met Thr Ser Ala Cys His
20 25 30

Arg Lys Cys Val Pro Pro His Tyr Lys Glu Ala Glu Leu Ser Lys Gly
35 40 45

Glu Ser Val Cys Leu Asp Arg Cys Val Ser Lys Tyr Leu Asp Ile His
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Glu Arg Met Gly Lys Lys Leu Thr Glu Leu Ser Met Gln Asp Glu Glu
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Leu Met Lys Arg Val Gln Gln Ser Ser Gly Pro Ala
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<400> 438
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Val Asp Lys Val Ile Gln Ala Gln Thr Ala Phe Ser Ala Asn Pro Ala
20 25 30

Asn Pro Ala Ile Leu Ser Glu Ala Ser Ala Pro Ile Pro His Asp Gly
35 40 45

Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu
50 55 60

Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly
65 70 75 80

Ala Pro Leu Gln Gly Gln Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr

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<400> 439
Val Val Pro Ser Thr Lys Asp Phe Leu Val Gly Val Lys Gly Ser Gly
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Gly His Arg Gly Gly Gly Glu Met Ala Phe Ser Gly Ser Gln Ala Pro
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Gln	Asp	Gly	Leu	Gln	Ile	Thr	Val	Asn	Gly	Thr	Val	Leu	Ser	Ser	Ser
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Gly	Thr	Arg	Phe	Ala	Val	Asn	Phe	Gln	Thr	Gly	Phe	Ser	Gly	Asn	Asp
	65				70					75					80
Ile	Ala	Phe	His	Phe	Asn	Pro	Arg	Phe	Glu	Asp	Gly	Gly	Tyr	Val	Val
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Cys	Asn	Thr	Arg	Gln	Asn	Gly	Ser	Trp	Gly	Pro	Glu	Glu	Arg	Lys	Thr
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Gln	Ser	Ser	Asp	Phe	Lys	Val	Met	Val	Asn	Gly	Ile	Leu	Phe	Val	Gln
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Tyr	Phe	His	Arg	Val	Pro	Phe	His	Arg	Val	Asp	Thr	Ile	Ser	Val	Asn
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Gly	Ser	Val	Gln	Leu	Ser	Tyr	Ile	Ser	Phe	Gln	Asn	Pro	Arg	Thr	Val
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Pro	Val	Gln	Pro	Ala	Phe	Ser	Thr	Val	Pro	Phe	Ser	Gln	Pro	Val	Cys
			180					185					190		
Phe	Pro	Pro	Arg	Pro	Arg	Gly	Arg	Arg	Gln	Lys	Pro	Pro	Gly	Val	Trp
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Pro	Ala	Asn	Pro	Ala	Pro	Ile	Thr	Gln	Thr	Val	Ile	His	Thr	Val	Gln
	210					215					220				
Ser	Ala	Pro	Gly	Gln	Met	Phe	Ser	Thr	Pro	Ala	Ile	Pro	Pro	Met	Met
	225				230					235					240
Tyr	Pro	His	Pro	Ala	Tyr	Pro	Met	Pro	Phe	Ile	Thr	Thr	Ile	Leu	Gly
				245					250					255	
Gly	Leu	Tyr	Pro	Ser	Lys	Ser	Ile	Leu	Leu	Ser	Gly	Thr	Val	Leu	Pro
			260					265					270		
Ser	Ala	Gln	Arg	Phe	His	Ile	Asn	Leu	Cys	Ser	Gly	Asn	His	Ile	Ala
		275					280					285			
Phe	His	Leu	Asn	Pro	Arg	Phe	Asp	Glu	Asn	Ala	Val	Val	Arg	Asn	Thr
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